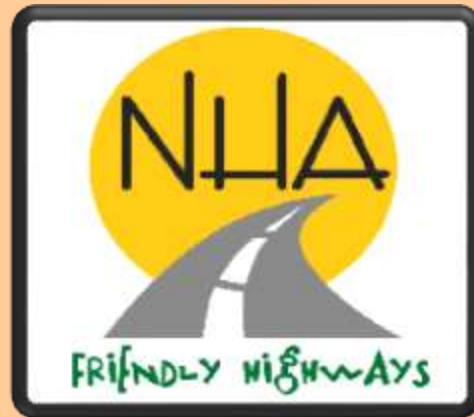


NATIONAL HIGHWAY AUTHORITY

**MINISTRY OF COMMUNICATIONS
GOVERNMENT OF PAKISTAN
(BALUCHISTAN SOUTH REGION)**



CONTRACT/BID DOCUMENT FOR PROCUREMENT OF

**SPECIAL MAINTENANCE WORK -
RESTORATION OF DAMAGED PORTION
BETWEEN KM 113 ~ 117 (M-8)
CONTRACT NO. SM-BS-2019-20-04**

(Single Stage Two Envelope Bidding Procedure)

M/s _____

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INVITATION FOR BIDS

INVITATION FOR BIDS

Date: _____

Bid Reference No. CONTRACT NO. SM-BS-2019-20-04

1. The National Highway Authority, Ministry of Communications, Govt. of Pakistan, The “Employer”) intends to execute the work

SPECIAL MAINTENANCE WORK FOR RESTORATION OF DAMAGED PORTION BETWEEN KM 113 ~ 117 (M-8)

Balochistan-South Region, under Maintenance Unit, M-8 @ Krakh / Jhal Magsi

2. The Employer invites sealed bids, under Single Stage-Two Envelope bidding procedure, from eligible firms or persons licensed by the Pakistan Engineering Council in the appropriate category for the Works as mentioned in NIT / Bid Data Sheet.
3. Eligible Bidders may obtain further information from, the Office of ***General Manager (Balochistan-South) NHA Complex Main RCD Highway, Khuzdar.***
4. A complete set of Documents may be downloaded by an interested bidder from NHA’s website: www.nha.gov.pk
5. **All bids (Technical) must be accompanied with a Bid Security /Earnest Money @ 2% of Engineer’s Estimate in shape of Pay order / Demand Draft only in favour of “National Highway Authority/Road Maintenance Account (RMA),” and must be delivered to Office of the General Manager (Baluchistan-South) NHA Complex Main RCD Highway, Khuzdar at or before 08th January, 2021 @ 1100 hours.**

INSTRUCTIONS TO BIDDERS

INSTRUCTIONS TO BIDDERS

(Note: These Instructions to Bidders along with Bidding Data Sheet will not be part of the Contract and will cease to have effect once the contract is signed.)

A. GENERAL

IB.1 Scope of Bid

- 1.1 The Employer as defined in the Bidding Data Sheet hereinafter called “the Employer” wishes to receive bids for the construction and completion of works as described in these Bidding Documents, and summarized in the Bidding Data Sheet hereinafter referred to as the “Works”.
- 1.2 The successful bidder will be expected to complete the Works within the time specified in Appendix-A to Bid.

IB.2 Source of Funds

- 2.1 The Employer has applied for/received a loan/credit from the source (s) indicated in the Bidding Data Sheet in various currencies towards the cost of the project specified in the Bidding Data Sheet and it is intended that part of the proceeds of this loan/credit will be applied to eligible payments under the Contract for which these Bidding Documents are issued.

IB.3 Eligible Bidders

- 3.1 This Invitation for Bids is open to all bidders meeting the requirements as mentioned in Bidding Data Sheet:
 - a. Duly licensed by the Pakistan Engineering Council (PEC) in the category as per NIT/IFB.

IB.4 Award of Two Tenders per Bidder

- 4.1 Each bidder shall only be awarded a maximum of two tenders. The sealed financial bids shall be opened in sequence as advertised. If one contractor is lowest in 2 tenders then 03rd bid will not be opened and returned un-opened.

IB.5 Cost of Bidding

- 5.1 The bidders shall bear all costs associated with the preparation and submission of their respective bids and the Employer will in no case be responsible or liable for those costs, regardless of the conduct or outcome of the bidding process.

IB.6 Site Visit

- 6.1 The bidders are advised to visit and examine the Site of Works and its surroundings and obtain for themselves on their own responsibility all information that may be necessary for preparing the bid and entering into a contract for construction of the Works. All cost in this respect shall be at the bidder's own expense.
- 6.2 The bidders and any of their personnel or agents will be granted permission by the Employer to enter upon his premises and lands for the purpose of such inspection, but only upon the express condition that the bidders, their personnel and agents, will release and indemnify the Employer, his personnel and agents from and against all liability in respect thereof and will be responsible for death or personal injury, loss of or damage to property and any other loss, damage, costs and expenses incurred as a result of such inspection.

B. BIDDING DOCUMENTS**IB.7 Contents of Bidding Documents**

- 7.1 The Bidding Documents, in addition to invitation for bids, are those stated below and should be read in conjunction with any Addenda issued in accordance with Clause IB.9.
1. Instructions to Bidders.
 2. Bidding Data Sheet.
 3. General Conditions of Contract, Part-I (GCC).
 4. Particular Conditions of Contract, Part-II (PCC).
 5. Specifications – Special Provisions.
 6. Specifications – Technical Provisions.
 7. Form of Bid & Appendices to Bid.
 8. Bill of Quantities (Appendix-D to Bid).
 9. Form of Bid Security.
 10. Form of Contract Agreement.
 11. Forms of Performance Security and Mobilization Advance Guarantee/Bond and Form of Indemnity Bond for Secured Advance
 12. Drawings.
- 7.2 The bidders are expected to examine carefully the contents of all the above documents. Failure to comply with the requirements of bid submission will be at the Bidder's own risk. Pursuant to Clause IB.26, ***bids which are not substantially responsive to the requirements of the Bidding Documents will be rejected.***

IB.8 Clarification of Bidding Documents

- 8.1 Any prospective bidder requiring any clarification (s) in respect of the Bidding Documents may notify the Employer in writing at the Employer's address indicated in the Invitation for Bids. The Employer will respond to any request for clarification which he receives earlier than prior to the deadline for submission of bids. Copies of the Employer's response will be forwarded to all purchasers of the Bidding Documents, including a description of the enquiry but without identifying its source.

IB.9 Amendment of Bidding Documents

- 9.1 At any time prior to the deadline for submission of bids, the Employer may, for any reason, whether at his own initiative or in response to a clarification requested by a prospective bidder, modify the Bidding Documents by issuing addendum.
- 9.2 Any addendum thus issued shall be part of the Bidding Documents pursuant to IB 7.1 hereof and shall be communicated in writing to all purchasers of the Bidding Documents. Prospective bidders shall acknowledge receipt of each addendum in writing to the Employer.
- 9.3 To afford prospective bidders reasonable time in which to take an addendum into account in preparing their bids, the Employer may extend the deadline for submission of bids in accordance with Clause IB.20

C. PREPARATION OF BIDS**IB.10 Language of Bid**

- 10.1 The bid and all correspondence and documents related to the bid exchanged by a bidder and the Employer shall be in the bid language stipulated in the Bidding Data Sheet and Particular Conditions of Contract. Supporting documents and printed literature furnished by the bidders may be in any other language provided the same are accompanied by an accurate translation of the relevant parts in the bid language, in which case, for purposes of evaluation of the bid, the translation in bid language shall prevail.

IB.11 Documents Comprising the Bid

- 11.1 The Bid shall comprise two envelopes submitted simultaneously, one called the Technical Bid and the other the Financial Bid, containing the documents listed in Bidding Data Sheet under the heading of IB 11.1 A & B respectively. Both envelopes to be enclosed together in an outer single envelope called the Bid. Each bidder shall furnish all the documents as specified in Bidding Data Sheet 11.1 A & B.

11.2 Bids submitted by a JV with foreign firm shall include a copy of the Joint Venture Agreement entered into by all partners. Alternatively, a Letter of Intent to execute a Joint Venture Agreement in the event of a successful bid shall be signed by all partners and submitted with the bid, together with a copy of the proposed agreement. The role to be played by each partner to be specified therein bid submitted by a joint venture of two (2) or more firms shall comply with the following requirements:

- (a) In case of a successful bid, the Form of JV Agreement shall be signed so as to be legally binding on all partners within 7 days of the receipt of letter of acceptance failing which the contract and the letter of acceptance shall stand void and redundant.
- (b) One of the joint venture partners shall be nominated as being in charge; and this authorization shall be evidenced by submitting a power of attorney signed by legally authorized signatories of all the joint venture partners;
- (c) The partner-in-charge shall always be duly authorized to deal with the Employer regarding all matters related with and/or incidental to the execution of Works as per the terms and Conditions of JV Agreement and in this regard to incur any and all liabilities, receive instructions, give binding undertakings and receive payments on behalf of the joint venture;
- (d) All partners of the joint venture shall at all times and under all circumstances be liable jointly and severally for the execution of the Contract in accordance with the Contract terms and a statement to this effect shall be included in the authorization mentioned under Sub-Para (b) above as well as in the Form of Bid and in the Form of JV Agreement (in case of a successful bid); and
- (e) A copy of JV agreement shall be submitted before signing of the Contract, stating the conditions under which JV will function, its period of duration, the persons authorized to represent and obligate it and which persons will be directly responsible for due performance of the Contract and can give valid receipts on behalf of the joint venture, the proportionate participation of the several firms forming the joint venture, and any other information necessary to permit a full appraisal of its functioning. The JV Agreement shall be made part of the contract. No amendments / modifications whatsoever in the joint venture agreement shall be agreed to between the joint venture partners without prior written consent of the Employer.

11.3 The Bidder shall furnish, as part of the Technical Bid, a Technical Proposal including a statement of work methods, equipment, personnel, schedule and any other information as stipulated Bidding Forms, in sufficient detail to demonstrate the adequacy of the Bidders' proposal to meet the work requirements and the completion time referred to in Sub-Clause 1.2 hereof.

IB.12 Bid Prices

12.1 Unless stated otherwise in the Bidding Documents, the Contract shall be for the whole of the Works as described in IB 1.1 hereof, based on the unit rates and / or prices submitted by the bidder.

- 12.2 The bidders shall fill in rates and prices for all items of the Works described in the Bill of Quantities. Items against which no rate or price is entered by a bidder will not be paid for by the Employer when executed and shall be deemed covered by rates and prices for other items in the Bill of Quantities.
- 12.3 All duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to the deadline for submission of bids shall be included in the rates and prices and the total Bid Price submitted by a bidder. Additional / reduced duties, taxes and levies due to subsequent additions or changes in legislation shall be reimbursed / deducted as per Sub-Clause 70.2 of the General Conditions of Contract Part-I.
- 12.4 The rates and prices quoted by the bidders are subject to adjustment during the performance of the Contract in accordance with the provisions of Clause 70 of the Conditions of Contract. The bidders shall furnish the prescribed information for the price adjustment formulae in Appendix C to Bid and shall submit with the bids such other supporting information as required under the said clause.

IB.13 Currencies of Bid and Payment

- 13.1 The unit rates and the prices shall be quoted by the bidder entirely in Pak rupees. A bidder expecting to incur expenditures in other currencies for inputs to the Works supplied from outside the Employer's country (referred to as the "Foreign Currency Requirements") shall indicate the same in Appendix-B to Bid. The proportion of the Bid Price (excluding Provisional Sums) needed by him for the payment of such Foreign Currency Requirements either (i) entirely in the currency of the Bidder's home country or, (ii) at the bidder's option, entirely in Pak rupees provided always that a bidder expecting to incur expenditures in a currency or currencies other than those stated in (i) and (ii) above for a portion of the foreign currency requirements, and wishing to be paid accordingly, shall indicate the respective portions in his bid.
- 13.2 The rates of exchange to be used by the bidder for currency conversion shall be the TT & OD Selling Rates published or authorized by the State Bank of Pakistan prevailing on prior to the deadline for submission of bids. For the purpose of payments, the exchange rates used in bid preparation shall apply for the duration of the Contract.

IB.14 Bid Validity

- 14.1 Bids shall remain valid for the period stipulated in the Bidding Data Sheet after the Date of Bid Opening specified in Clause IB.23.

- 14.2 In exceptional circumstances, prior to expiry of the original bid validity period, the Employer may request that the bidders extend the period of validity for a specified additional period which shall in no case be more than the original bid validity period. The request and the responses thereto shall be made in writing. A bidder may refuse the request without forfeiting his Bid Security. A bidder agreeing to the request will not be required or permitted to modify his bid, but will be required to extend the validity of his Bid Security for the period of the extension, and in compliance with Clause IB.15 in all respects.

IB.15 Bid Security

- 15.1 Each bidder shall furnish, as part of his bid, a Bid Security in the amount stipulated in the Bidding Data Sheet in Pak Rupees or an equivalent amount in a freely convertible currency.
- 15.2 The Bid Security shall be 2% of Engineer's Estimate in the shape of (Pay Order / Demand Draft Only) in favor of **National Highway Authority / Road Maintenance Account (RMA)** along-with Technical Bids, valid for a period of 28 days beyond the Bid Validity date.
- 15.3 Any bid not accompanied by an acceptable Bid Security shall be rejected by the Employer as non-responsive.
- 15.4 The bid securities of unsuccessful bidders will be returned as promptly as possible, but not later than 28 days after the expiration of the period of Bid Validity.
- 15.5 The Bid Security of the successful bidder will be returned when the bidder has furnished the required Performance Security and signed the Contract Agreement.
- 15.6 The Bid Security may be forfeited:
- (a) If the bidder withdraws his bid except as provided in IB 22.1;
 - (b) If the bidder does not accept the correction of his Bid Price pursuant to IB 27.2 hereof; or
 - (c) In the case of successful bidder, if he fails within the specified time limit to:
 - (i) Furnish the required Performance Security;
 - (ii) Sign the Contract Agreement, or
 - (iii) Furnish the required JV agreement within 7 days of the receipt of Letter of acceptance.

IB.16 Alternate Proposals by Bidder

- 16.1 Should any bidder consider that he can offer any advantages to the Employer by a modification to the designs, specifications or other conditions, he may, in addition to his bid to be submitted in strict compliance with the Bidding Documents, submit any Alternate Proposal(s) containing (a) relevant design calculations; (b) technical specifications; (c) proposed construction methodology; and (d) any other relevant details / conditions, provided always that the total sum entered on the Letter of Financial Bid shall be that which represents complete compliance with the Bidding Documents. The technical details and financial implication involved are to be submitted in two separate sealed envelopes as to be followed in main bid proposals.
- 16.2 Alternate Proposal(s), if any, of the lowest evaluated responsive bidder only may be considered by the Employer as the basis for the award of Contract to such bidder.

IB.17 Pre-Bid Meeting

- 17.1 The Employer may, on his own motion or at the request of any prospective bidder(s), hold a pre-bid meeting to clarify issues and to answer any questions on matters related to the Bidding Documents. The date, time and venue of pre-bid meeting, if convened, is as stipulated in the Bidding Data Sheet. All prospective bidders or their authorized representatives shall be invited to attend such a pre-bid meeting.
- 17.2 The bidders are requested to submit questions, if any, in writing so as to reach the Employer not later than seven (7) days before the proposed pre-bid meeting.
- 17.3 Minutes of the pre-bid meeting, including the text of the questions raised and the replies given, will be transmitted without delay to all purchasers of the Bidding Documents. Any modification of the Bidding Documents listed in IB 7.1 hereof, which may become necessary as a result of the pre-bid meeting shall be made by the Employer exclusively through the issue of an Addendum pursuant to Clause IB.9 and not through the minutes of the pre-bid meeting.
- 17.4 Absence at the pre-bid meeting will not be a cause for disqualification of a bidder.

IB.18 Format and Signing of Bid

- 18.1 Bidders are particularly directed that the amount entered on the Letter of Financial Bid shall be for performing the Contract strictly in accordance with the Bidding Documents.
1. All appendices to Bid are to be properly completed and signed.
 2. No alteration is to be made in the Letters of Price and Technical Bids nor in the Appendices thereto except in filling up the blanks as directed. If any such alterations be made or if these instructions be not fully complied with, the bid may be rejected.

- 18.4 The Bidder shall prepare one original of the Technical Bid and one original of the Financial Bid comprising the Bid as described in Bidding Data Sheet against IB 11 and clearly mark it “ORIGINAL – TECHNICAL BID” and “ORIGINAL –FINANCIAL BID”. In addition, the Bidder shall submit two (2) copies of the Bid and clearly mark each of them “COPY.” In the event of any discrepancy between the original and the copies, the original shall prevail.
- 18.5 The original and all copies of the Bid shall be typed or written in indelible ink and shall be signed by a person duly authorized to sign on behalf of the Bidder. This authorization shall consist of a written confirmation as specified in the Bidding Data Sheet and shall be attached to the bid. The name and position held by each person signing the authorization must be typed or printed below the signature. All pages of the Bid, except for un-amended printed literature, shall be signed or initialed by the person signing the bid.
- 18.6 Any amendments such as interlineations, erasures, or overwriting shall be valid only if they are signed or initialed by the person signing the bid.
- 18.7 Bidders shall indicate in the space provided in the Letter of Technical and Financial Bids, their full and proper addresses at which notices may be legally served on them and to which all correspondence in connection with their bids and the Contract is to be sent.
- 18.8 Bidders should retain a copy of the Bidding Documents as their file copy.

D. SUBMISSION OF BIDS FOR SINGLE STAGE TWO ENVELOPE BIDDING PROCEDURE

IB.19 Sealing and Marking of Bids

- 19.1 Each bidder shall submit his bid as under:
- (a) ORIGINAL and each copy of the Bid shall be separately sealed and put in separate envelopes and marked as such.
 - (b) The envelopes containing the ORIGINAL and copies will be put in one sealed envelope and addressed / identified as given in IB 19.2 hereof.
 - (c) The technical bid should comprise of documents listed in IB11.1 (A) & the Financial Bid should comprise of documents listed in IB 11.1 (B) which shall be placed in separate envelopes in accordance with IB 11.1.

19.2 The inner and outer envelopes shall:

- (a) Be addressed to the Employer at the address provided in the Bidding Data Sheet;
- (b) (b) Bear the name and identification number of the contract as defined in the Bidding Data Sheet; and
- (c) Provide a warning not to open before the time and date for bid opening, as specified in the Bidding Data Sheet.

19.3 In addition to the identification required in IB 19.2 hereof, the inner envelope shall indicate the name and address of the bidder to enable the bid to be returned unopened in case it is declared "late" pursuant to Clause IB.21

19.4 If the outer envelope is not sealed and marked as above, the Employer will assume no responsibility for the misplacement or premature opening of the Bid.

19.5 Proposals must be prepared in hard book binding form so as to ensure that the inner papers safely remain intact during evaluation (spiral binding will lead to non-responsiveness of bids). All pages of the bid shall be properly numbered (**starting from first to last page**), duly **signed and stamped (both Technical and Financial Bids) in original by owner of the firm or by a person or persons duly authorized to sign**. This shall be indicated by submitting a written Power of Attorney authorizing the signatory of the tenderer to act for and on behalf of the tenderer / owner of the firm signing the bid. Any proposal not adhering to these requirements will be rejected at the time of opening or Authority will not accept loss / missing of papers for such deficiencies.

19.6 Complete set of Bidding Documents duly signed / stamped by the bidder must be submitted in the **Financial Bid**.

IB.20 Deadline for Submission of Bids

20.1

- (a) Bids must be received by the Employer at the address specified no later than the time and date stipulated in the Bidding Data Sheet.
- (b) Bids with charges payable will not be accepted, nor will arrangements be undertaken to collect the bids from any delivery point other than that specified above. Bidders shall bear all expenses incurred in the preparation and delivery of bids. No claims will be entertained for refund of such expenses.
- (c) Where delivery of a bid is by mail and the bidder wishes to receive an acknowledgment of receipt of such bid, he shall make a request for such acknowledgment in a separate letter attached to but not included in the sealed bid package.
- (d) Upon request, acknowledgment of receipt of bids will be provided to those making delivery in person or by messenger.

- 20.2 The Employer may, at his discretion, extend the deadline for submission of Bids by issuing an amendment in accordance with Clause IB.9, in which case all rights and obligations of the Employer and the bidders previously subject to the original deadline will thereafter be subject to the deadline as extended.

IB.21 Late Bids

21. (a) Any bid received by the Employer after the deadline for submission of bids prescribed in Clause IB.20 will be returned unopened to such bidder.
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- (b) Delays in the mail, delays of person in transit, or delivery of a bid to the wrong office shall not be accepted as an excuse for failure to deliver a bid at the proper place and time. It shall be the bidder's responsibility to determine the manner in which timely delivery of his bid will be accomplished either in person, by messenger or by mail.

IB.22 Modification, Substitution and Withdrawal of Bids

- 22.1 Any bidder may modify, substitute or withdraw his bid after bid submission provided that the modification, substitution or written notice of withdrawal is received by the Employer prior to the deadline for submission of bids.
- 22.2 The modification, substitution, or notice for withdrawal of any bid shall be prepared, sealed, marked and delivered in accordance with the provisions of Clause IB.19 with the outer and inner envelopes additionally marked "MODIFICATION", "SUBSTITUTION" or "WITHDRAWAL" as appropriate.
- 22.3 No bid may be modified by a bidder after the deadline for submission of bids except in accordance with IB 22.1 and 27.2.
- 22.4 Withdrawal of a bid during the interval between the deadline for submission of bids and the expiration of the period of bid validity specified in the Form of Bid may result in forfeiture of the Bid Security in pursuance to Clause IB.15.

E BID OPENING AND EVALUATION FOR SINGLE STAGE TWO ENVELOPE BIDDING PROCEDURE

IB. 23 Bid Opening

- 23.1 The Employer will open the Technical Bids in public at the address, date and time specified in the Bidding Data Sheet in the presence of Bidders' designated representatives and anyone who choose to attend. The Financial Bids will remain unopened and will be held in custody of the Employer until the specified time of their opening.
- 23.2 First, envelopes marked "WITHDRAWAL" shall be opened and read out and the envelope with the corresponding bid shall not be opened, but returned to the Bidder. No bid withdrawal shall be permitted unless the corresponding Withdrawal Notice contains a valid authorization to request the withdrawal and is read out at bid opening.
- 23.3 Second, outer envelopes marked "SUBSTITUTION" shall be opened. The inner envelopes containing the Substitution Technical Bid and/or Substitution Financial Bid shall be exchanged for the corresponding envelopes being substituted, which are to be returned to the Bidder unopened. Only the Substitution Technical Bid, if any, shall be

opened, read out, and recorded. Substitution Financial Bid will remain unopened in accordance with IB 23.1. No envelope shall be substituted unless the corresponding

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Substitution Notice contains a valid authorization to request the substitution and is read out and recorded at bid opening.

23.4 Next, outer envelopes marked “MODIFICATION” shall be opened. No Technical Bid and/or Financial Bid shall be modified unless the corresponding Modification Notice contains a valid authorization to request the modification and is read out and recorded at the opening of Technical Bids. Only the Technical Bids, both Original as well as Modification, are to be opened, read out, and recorded at the opening. Financial Bids, both Original and Modification, will remain unopened in accordance with IB 23.1. The Bidders’ representatives who are present shall be requested to sign the record. The omission of a Bidder’s signature on the record shall not invalidate the contents and effect of the record. A copy of the record shall be distributed to all Bidders.

23.5 Other envelopes holding the Technical Bids shall be opened one at a time, and the following read out and recorded:

- (a) the name of the Bidder;
- (b) whether there is a modification or substitution;
- (c) the presence of a Bid Security, if required; and
- (d) Any other details as the Employer may consider appropriate.

No Bid shall be rejected at the opening of Technical Bids except for late bids, in accordance with IB 21.1. Only Technical Bids read out and recorded at bid opening shall be considered for evaluation.

Preliminary Examination of Technical Bids

- 23.6 a) The Employer shall first examine qualification and experience Data as per appendix M and N submitted by the Bidder. The technical proposal examination of those bidders only shall be taken in hand who meet the minimum requirement as mentioned in appendix M and N. Only substantially responsive qualification shall be considered for further evaluation.
- b) The Employer shall examine the Technical Bid to confirm that all the documents have been provided, and to determine the completeness of each document submitted.
- c) The Technical Evaluation/Prequalification shall be carried out as per following requirement:

Sr. #	Description	Mandatory
i.	Valid PEC Certificate in relevant Category with required Specialization Codes as per NIT.	
ii.	Valid NTN Certificate.	
iii.	Financial Soundness (as per NIT)	
iv.	Relevant Experience (as per NIT)	
v.	General Experience (Civil Work)	
vi.	Work Methodology	
vii.	Personal Capabilities	
viii.	Equipment’s Capability/ Ownership certificate	
ix.	No Black Listing Certificate on Stamp paper attested by First Class Magistrate	
x.	No Litigation Certificate on Stamp paper attested by First Class Magistrate	

(Note:- Details at TQC table at the end of IB paras)

- d) The above requirement is mandatory, if any found missing the firm will be liable for disqualification “must meet” criteria

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23.7 The Employer shall confirm that all the documents and information have been provided for evaluation of Technical bid as required under these bidding documents.

23.8 At the end of the evaluation of the Technical Bids, the Employer will invite only those bidders who have submitted substantially responsive Technical Bids (scoring at least 60 marks in addition to the mandatory “must meet criteria” and who have been determined as being qualified for award to attend the opening of the Financial Bids.

The date, time, and location of the opening of Financial Bids will be advised in writing by the Employer. Bidders shall be given reasonable notice for the opening of Financial Bids.

23.9 The Employer will notify Bidders in writing who have been rejected on the grounds of their Technical Bids being substantially non-responsive to the requirements of the Bidding Document and return their Financial Bids unopened before inviting others, who are determined as being qualified, to attend the opening of Financial Bids.

23.10 The Employer shall conduct the opening of Financial Bids of all Bidders who submitted substantially responsive Technical Bids, publically in the presence of Bidders’ representatives who choose to attend at the address, date and time specified by the Employer. The Bidder’s representatives who are present shall be requested to sign a register evidencing their attendance.

23.11 All envelopes containing Financial Bids shall be opened one at a time and the following read out and recorded:

- (a) The name of the Bidder;
- (b) Whether there is a modification or substitution;
- (c) The Bid Prices, including any discounts and alternative offers; and
- (d) Any other details as the Employer may consider appropriate.

Only Financial Bids and discounts, read out and recorded during the opening of Financial Bids shall be considered for evaluation. No Bid shall be rejected at the opening of Financial Bids.

23.12 If this Bidding Document allows Bidders to quote separate prices for different contracts, and the award to a single Bidder of multiple contracts, the methodology to determine the lowest evaluated price of the contract combinations is that which is most economical to the Employer.

IB.24 Process to be Confidential

24.1 Information relating to the examination, clarification, evaluation and comparison of bid and recommendations for the award of a contract shall not be disclosed to bidders or any other person not officially concerned with such process before the announcement of bid evaluation report which shall be done at least ten 10 days prior to issue of Letter of Acceptance. The announcement to all Bidders will include table(s) comprising read out prices, discounted prices, price adjustments made, final

Evaluated prices and recommendations against all the bids evaluated. Any effort by a bidder to influence the Employer's processing of bids or award decisions may result in the rejection of such bidder's bid. Whereas any bidder feeling aggrieved may lodge a written complaint not later than Seven (07) days after the announcement of the bid evaluation report. However mere fact of lodging a complaint shall not warrant suspension of the procurement process.

IB.25 Clarification of Bids

- 25.1 To assist in the examination, evaluation and comparison of bids, the Employer may, at his discretion, ask any bidder for clarification of his bid, including breakdowns of unit rates. The request for clarification and the response shall be in writing but no change in the price or substance of the bid shall be sought, offered or permitted except as required to confirm the correction of arithmetic errors discovered by the Employer in the evaluation of the bids in accordance with Clause IB.28.
- 25.2 If a Bidder does not provide clarifications of its Bid by the date and time set in the Employer's request for clarification, its bid may be rejected.

IB.26 Examination of Bids and Determination of Responsiveness

- 26.1 Prior to the detailed evaluation of bids, the Employer will determine whether each bid is substantially responsive to the requirements of the Bidding Documents.
- 26.2 A substantially responsive bid is one which (i) meets the eligibility criteria; (ii) each and every page has been properly signed and stamped; (iii) is accompanied by the required Bid Security; (iv) Includes signed Integrity Pact where required as per clause IB.35 and (v) conforms to all the terms, conditions and specifications of the Bidding Documents, without material deviation or reservation. A material deviation or reservation is one (i) which affect in any substantial way the scope, quality or performance of the Works; (ii) which limits in any substantial way, inconsistent with the Bidding Documents, the Employer's rights or the bidder's obligations under the Contract; (iii) adoption/rectification whereof would affect unfairly the competitive position of other bidders presenting substantially responsive bids. Only substantially responsive bid shall be considered for further evaluation.
- 26.3 If a bid is not substantially responsive, it may not subsequently be made responsive by correction or withdrawal of the non-conforming material deviation or reservation. The Employer may, however, seek confirmation/ clarification in writing which shall be responded in writing.

IB.27 Correction of Errors

- 27.1 Bids determined to be substantially responsive will be checked by the Employer for any arithmetic errors. Errors will be corrected by the Employer as follows:

- (a) Where there is a discrepancy between the amounts in figures and in words, the amount in words will govern; and
- (b) Where there is a discrepancy between the unit rate and the line item total resulting from multiplying the unit rate by the quantity, the unit rate as quoted will govern, unless in the opinion of the Employer there is an

obviously gross misplacement of the decimal point in the unit rate, in which case the line item total as quoted will govern and the unit rate will be corrected.

- 27.2 The amount stated in the Letter of Financial Bid will be adjusted by the Employer in accordance with the above procedure for the correction of errors and with the concurrence of the bidder, shall be considered as binding upon the bidder. If the bidder does not accept the corrected Bid Price, his Bid will be rejected, and the Bid Security shall be forfeited in accordance with IB.15.6 (b) hereof.

IB.28 Evaluation and Comparison of Bids

- 28.1 The Employer will evaluate and compare only the Bids determined to be substantially responsive in accordance with Clause IB.26.
- 28.2 In evaluating the Bids, the Employer will determine for each Bid the evaluated Bid Price by adjusting the Bid Price as follows:
- (a) Making any correction for errors pursuant to Clause IB.27;
 - (b) Excluding Provisional Sums and the provision, if any, for contingencies in the Summary Bill of Quantities, but including competitively priced Day work; and
 - (c) Making an appropriate adjustment for any other acceptable variation or deviation.
- 28.3 The estimated effect of the price adjustment provisions of the Conditions of Contract, applied over the period of execution of the Contract, shall not be taken into account in Bid evaluation.
- 28.4 If the Bid of the successful bidder is seriously unbalanced in relation to the Employer's estimate of the cost of work to be performed under the Contract, the Employer may require the bidder to produce detailed price analyses for any or all items of the Bill of Quantities to demonstrate the internal consistency of those prices with the construction methods and schedule proposed. After evaluation of the price analyses, the Employer may require that the amount of the Performance Security set forth in Clause IB.32 be increased at the expense of the successful bidder to a level sufficient to protect the Employer against financial loss in the event of default of the successful bidder under the Contract.

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F. AWARD OF CONTRACT

IB.29 Award

- 29.1 Subject to Clauses IB.30 and IB.34, the Employer will award the Contract to the bidder whose bid has been determined to be substantially responsive to the Bidding Documents and who has offered the lowest evaluated Bid Price, provided that such bidder has been determined to be eligible in accordance with the provisions of Clause IB.3 and qualify pursuant to IB 29.2.
- 29.2 The Employer, at any stage of the bid evaluation, having credible reasons for or prima facie evidence of any defect in bidder's capacities, may require the bidders to provide

information concerning their professional, technical, financial, legal or managerial competence whether already pre-qualified or not:

Provided that such qualification shall only be laid down after recording reasons in writing. They shall form part of the records of that bid evaluation report.

IB.30 Employer's Right to Accept any Bid and to Reject any or all Bids

- 30.1 Notwithstanding Clause IB.29, the Employer reserves the right to accept or reject any Bid, and to annul the bidding process and reject all bids, at any time prior to award of Contract, without thereby incurring any liability to the affected bidders or any obligation except that the grounds for rejection of all bids shall upon request be communicated to any bidder who submitted a bid, without justification of grounds. Rejection of all bids shall be notified to all bidders promptly.

IB.31 Notification of Award

- 31.1 Prior to expiration of the period of bid validity prescribed by the Employer, the Employer will notify the successful bidder in writing ("Letter of Acceptance") that his Bid has been accepted. This letter shall name the sum which the Employer will pay the Contractor in consideration of the execution and completion of the Works by the Contractor as prescribed by the Contract (hereinafter and in the Conditions of Contract called the "Contract Price").
- 31.2 No Negotiation with the bidder having evaluated as lowest responsive or any other bidder shall be permitted.
- 31.3 The notification of award and its acceptance by the bidder will constitute the formation of the Contract, binding the Employer and the bidder till signing of the formal Contract Agreement.

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- 31.4 Upon furnishing by the successful bidder of a Performance Security, the Employer will promptly notify the other bidders that their Bids have been unsuccessful and return their bid securities.

IB.32 Performance Security

- 32.1 The successful bidder shall furnish to the Employer a Performance Security in the form and the amount stipulated in the Bidding Data Sheet and the Conditions of Contract within a period of 28 days after the receipt of Letter of Acceptance.
- 32.2 Failure of the successful bidder to comply with the requirements of IB.32.1 or IB.33 or IB.35 shall constitute sufficient grounds for the annulment of the award and forfeiture of the Bid Security.

IB.33 Signing of Contract Agreement

- 33.1 Within 14 days from the date of furnishing of acceptable Performance Security under the Conditions of Contract, the Employer will send the successful bidder the Contract Agreement in the form provided in the Bidding Documents, incorporating all agreements between the parties.

- 33.2 The formal Agreement between the Employer and the successful bidder shall be executed within 14 days of the receipt of the Contract Agreement by the successful bidder from the Employer.

IB.34 General Performance of the Bidders

The Employer reserves the right to obtain information regarding performance of the bidders on their previously awarded contracts/works. The Employer may in case of consistent poor performance of any Bidder as reported by the employers of the previously awarded contracts, inter alia, reject his bid and/or refer the case to the Pakistan Engineering Council (PEC). Upon such reference, PEC in accordance with its rules, procedures and relevant laws of the land take such action as may be deemed appropriate under the circumstances of the case including black listing of such Bidder and debarring him from participation in future bidding for similar works.

IB.35 Integrity Pact

The Bidder shall sign and stamp the Integrity Pact provided at Appendix-L to Bid in the Bidding Documents for all Federal Government procurement contracts exceeding Rupees ten million. Failure to provide such Integrity Pact shall make the bidder non-responsive.

IB.36 Instructions not Part of Contract

Bids shall be prepared and submitted in accordance with these Instructions which are provided to assist bidders in preparing their bids, and do not constitute part of the Bid or the Contract Documents.

TECHNICAL QUALIFICATION CRITERIA (TQC)

Sr.#	Description		Remarks
1	Registration with PEC in category C-4 or above with speciation in CE-01 & CE-10 (Valid PEC Certificate for Year 2020 & 2021), and active NTN certificate from FBR.		Must Meet Criteria
2	Ownership certificate for Equipment as per NIT		
3	Financial Soundness		
	a). Financial / Audit Reports of Last three Years as per International standards, duly issued / verified by a Chartered Accountant Firm duly registered with ICAP Pakistan.		Mandatory
	b). Cash Flow & Turn Over as per NIT		
4	Experience	Relevant Experience in last 5 years: at least two (02) contracts executed, value of each contract should not be less than 70% of Engineer’s Estimate.	
		General Experience in any type of bridge/structure work in last 10 years	
5	Overall Work Methodology regarding complete Scope of work		
6	Technical capabilities of Personnel with minimum qualification hired by the bidder along with CVs.		
7	Availability of Equipment’s/Ownership certificate as per NIT.		
8	Affidavit duly attested for No Litigation History (as per NIT)		
9	Affidavit duly attested that he has never been blacklisted anywhere in Pakistan (as per NIT)		

BIDDING DATA SHEET

Bidding Data Sheet

The Following specific data for the works to be bid shall compliment, amend or supplement the provisions in the instructions to bidder. Wherever, there is a conflict, the provisions herein shall prevail over these in the instructions to bidders.

1.1 Name and address of the Employer:

Chairman National Highway Authority HQ, 27 Mauve Area G-9/1, Islamabad.

1.2 Name of the Project & Summary of the Works:

SPECIAL MAINTENANCE WORK FOR RESTORATION OF DAMAGED PORTION BETWEEN KM 113 ~ 117 (M-8) , Balochistan South Region.

Contract No. SM-BS-2019-20-04

2.1 Name of the Borrower/Source of Financing/Funding Agency:

National Highway Authority / Road Maintenance Account (RMA) as per approved AMP 2019-20

3.1 Sub-clause 3.1a is deleted in its entirety and replaced with the following;

3.1a. Firms who fulfil all the requirements stated below shall be eligible for bidding;

- i) Firm (Single Entity) registered with Pakistan Engineering Council (PEC) in constructor's category as mentioned in NIT. A foreign bidder is entitled to bid only in a Joint Venture (JV) with a Pakistani Constructor in accordance with the relevant provisions of PEC bye-laws.
- ii) Similar Work Experience: Firms that have similar nature of work at **least 02 (Two) Nos. contracts** (but not more than one contract summed up for their values in this regard for each completed contracts) of similar size and complexity as a contractor or management contractor (but not as sub-contractor) with the minimum value of **70% of Engineer's Estimate amount of subject contract each during last Five (05) years**. In case of JV, each partner of JV must have completed one (01) contract with a minimum value of **70% of Engineer's Estimate amount of subject contract each**. If the lead partner alone fulfils the condition, then the other partner is not required to fulfil the condition. *(Letter of Award alongwith signed BOQ & Completion Certificates are must to be provided).*
- iii) Firm that has a minimum **Average Construction Turnover of Rs. 87.00 million during the last Three (03) Financial Years (mandatory)** (as mentioned in NIT).
- iv) Firm that has the capacity to generate minimum **Cash Flow of Rs. 21.00 million during the last Three (03) Financial Years (mandatory)** (as mentioned in NIT).
- v) Firms with satisfactory Past or present performance with NHA or any other executing agency and that have not been blacklisted earlier by any government agency/ authority / organization.

In case of joint venture, the Lead Partner must fulfil at least 70% of the above conditions mentioned in Clause-3.1a (ii), (iii) and (iv) and must have 50% or more share in the Joint Venture (JV) agreement, while the other members of the JV must fulfil the aforementioned criteria with respect to its share in the JV Agreement. However, if any one partner alone fulfils the condition in IB-3.1a (ii) above, then the other partner(s) are not required to fulfil the condition of IB-3.1a (ii).

8.1 Time limit for clarification:

Seven (07) days prior to deadline for submission of Bid.

10.1 Bid language:

English

11.1 (A) The Bidder shall submit with its Technical Bid the following documents:

- (a) Letter of Technical Bid
- (b) Bid Security (IB.15)
- (c) Written confirmation authorizing the signatory
of the Bid to commit the Bidder (IB.18.5)
- (d) Written Confirmation (Power of Attorney) authorizing the Person to submit the bid.
- (e) Pending litigation information
- (f) Special Stipulations (as filled by the Employer) (appendix –A)
- (g) ~~Proposed Construction Schedule~~ (appendix –E)
- (h) ~~Method of Performing the Work~~ (appendix –F)
- (i) Availability of Critical Equipment (appendix –G)
- (j) ~~Construction Camp and Housing Facilities~~ (appendix –H)
- (k) ~~List of Sub-contractors (as required)~~ (appendix –I)
- (l) Organization Chart for Supervisory Staff (appendix –K)
- (m) Integrity Pact (appendix –L)
- (n) Financial Competence and Access to financial Resources (appendix –M)
- (o) Past Performance, Current Commitment, Qualification and Experience (appendix –N)

11.1(B) The Bidder shall submit with its Financial Bid the following documents:

- (a) Letter of Financial Bid
- (b) ~~Foreign Currency Requirements~~ (appendix –B)
- (c) ~~Price Adjustment under Clause 70~~ (appendix –C)
- (d) Bill of Quantities (appendix –D)
- (e) Estimated Progress Payments (appendix –J)

11.2 Joint Venture (JV) of maximum Two (02) firms is admissible meeting the criterion as mentioned in clause 3.1 (a) of Bid Data Sheet.

13.1 Bidders to quote entirely in Pak. Rupees only.

14.1 **Period of Bid Validity:**

[180 Days]

15.1 Amount of Bid Security:

The bidders must have to provide the Earnest money **2% of Engineer's Estimate** in the shape of (Pay Order / Demand Draft only) in favor of **National Highway Authority / Road Maintenance Account (RMA)** along-with **Technical Bids**.

15.2 *The Bid Security @ 2% of Engineer's Estimate shall be, at the option of the bidder, in the form of Pay Order or Demand Draft in favor of the **National Highway Authority / Road Maintenance Account** valid for a period of 180+(28) days from the date of Submission of Bid. **The Bid Security must be submitted along-with Technical Bid.***

16 *Alternate Proposals by Bidder:*
Not Applicable

17.1 Venue, time, and date of the pre-Bid meeting:

18.4 Number of copies of the Bid to be completed and returned:
one original and one copy

19.2(a) Employer's address for the purpose of Bid submission:

Office of the General Manager (Baluchistan South) Region, NHA Complex, Main RCD Highway, Khuzdar.

Tel: 0848-412300-1, Fax.0848-412390

19.2(b) Name and Number of the Contract:

Name: **SPECIAL MAINTENANCE WORK FOR RESTORATION OF DAMAGED PORTION BETWEEN KM 113 ~ 117 (M-8)**

Contract #: **SM-BS-2019-20-04**

20.1(a) Deadline for submission of bids:

08th January, 2021 up to 1100 hours.

23.1 Venue, time, and date of Bid opening:

Office of the General Manager (Baluchistan-South) Region, NHA Complex, Main RCD Highway, Khuzdar.

Tel: 0848-412300-1, Fax.0848-412390

Time: 1200 hours

Date: 08th January, 2021

32.1 Standard form and amount of Performance Security acceptable to the Employer shall be in either of the following forms:

- 1. A bank guarantee of minimum amount equivalent to 10% of the Contract price issued by scheduled Bank of Pakistan.*
- 2. A performance guarantee of minimum amount equivalent to 30% of the contract price issued by an approved Insurance Company of NHA having AA Rating.*

**Letters of Technical Bid/ Financial Bid,
And
Appendices to Bid**

Letter of Technical Bid

Bid Reference No. CONTRACT NO. SM-BS-2019-20-04

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (IB) 9;
- (b) We offer to execute and complete in conformity with the Bidding Documents the following Works:

**SPECIAL MAINTENANCE WORK FOR RESTORATION OF
DAMAGED PORTION BETWEEN KM 113 ~ 117 (M-8),
Contract # SM-BS-2019-20-04**

- (c) Our Bid consisting of the Technical Bid and the Financial Bid shall be valid for a period of days from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (d) As security for due performance of the under takings and obligations of our bid, we submit here with a Bid security, in the amount specified in Bidding Data Sheet, which is valid (at least) 28 days beyond validity of Bid itself.
- (e) We are not participating, as a Bidder or as a subcontractor, in more than one bid in this bidding process, other than alternative offers submitted in accordance with IB16 (as applicable).

LTB-2

- (f) We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11.1 of the Bidding Data Sheet.

Name

In the capacity of

Signed

Duly authorized to sign the Bid for and on behalf of

Date

Address

Letter of Financial Bid

Bid Reference No. **SM-BS-2019-20-04**

To:

We, the undersigned, declare that:

- (a) We have examined and have no reservations to the Bidding Documents, including Addenda issued in accordance with Instructions to Bidders (IB)9;
- (b) The total price of our Bid, excluding any discounts offered in item (c) below is:

Rupees

- (c) The discounts offered and the methodology for their application are:
- (d) Our Bid shall be valid for a period ofdays from the date fixed for the bid submission deadline in accordance with the Bidding Documents, and it shall remain binding upon us and may be accepted at any time before the expiration of that period;
- (e) If our Bid is accepted, we commit to obtain a performance security in accordance with the Bidding Documents;

- (f) We understand that this bid, together with your written acceptance thereof included in your notification of award, shall constitute a binding contract between us, until a formal contract is prepared and executed and we do hereby declare that the Bid is made without any collusion, comparison of figures or arrangement with any other bidder for the Works.
- (g) We understand that you are not bound to accept the lowest evaluated bid or any other bid that you may receive.
- (h) We agree to permit Employer or its representative to inspect our accounts and records and other documents relating to the bid submission and to have them audited by auditors. This permission is extended for verification of any information provided in our Technical Bid which comprises all documents enclosed herewith in accordance with IB.11.1 of the Bidding Data Sheet.
- (i) If awarded the contract, the person named below shall act as Contractor's Representative.

Name

In the capacity of

Signed

.....

Duly authorized to sign the Bid for and on behalf of

Date

Address.....

SPECIAL STIPULATIONS

Clause

Conditions of Contract

1.	Engineer's Authority to issue Variation in emergency	2.1	As per NHA Code / prevailing SOPs
3.	Law applicable	5.1(b)	The law to be applied is the law of Islamic Republic of Pakistan
4.	Amount of Performance Security	10.1	Performance Security shall be provided as per Acceptance letter in either of the following forms. i. Minimum 10% of Contract Price stated in Letter of Acceptance in shape of Bank Guarantee issued by Scheduled Bank of Pakistan ii. Minimum 30% of Contract Price stated in the Letter of Acceptance in shape of Performance Bond issued by approved Insurance Company of NHA having AA Rating.
5.	Time for Furnishing Program	14.1	Within 14 days from the date of receipt of Letter of Acceptance.
6.	Minimum amount of Third Party Insurance	23.2	Rs. 500,000/- per occurrence with number of occurrences unlimited.
7.	Time for Commencement	41.1	Within 07 days from the date of receipt of Engineer's Notice to Commence which shall be issued within fourteen (14) days after signing of Contract Agreement/Letter of Award.
8.	Time for Completion	43.1, 48.2	Six (06) Months from the date of receipt of Engineer's Notice to Commence.
9.	a) Amount of Liquidated Damages	47.1	0.1 % for each day of delay in completion of the Works subject to a maximum of 10% of Contract Price stated in the Letter of Acceptance.
	b) Amount of Bonus	47.3	NA.
10.	Defects Liability Period	49.1	365 Days from the effective date of Completion / Taking Over Certificate.
11.	Percentage of Retention Money	60.2	10% of the amount of Interim Payment Certificate.
12.	Limit of Retention Money	60.2	5 % of Contract Price stated in the Letter of Acceptance.
13.	Minimum amount of Interim Payment Certificates (Running Bills)	60.2	- Twenty Percent (20%) of Contract Price except final payment certificate. - Final payment certificate shall not be less than 15% of Contract Price.
14.	Minimum amount of Final Bill Certificate		Not less than 15% of contract cost.
15.	Time of Payment from delivery of Engineer's Interim Payment Certificate to the Employer.	60.10	42 days (subject to appearance of contractor's name on Active Tax Payers list as per S.R.O 1093(I)/2015-Public Public Procurement Regulation-2015).
16.	Mobilization Advance * (Interest Free)	60.12	N/A
17.	Concrete work at site	SS-30	All the Concrete will be from Concrete Batching Plant and will be transported in transit mixers using additional high early strength Admixture Chemrite Rapid 1 or equivalent (0.5kg per cement bag) for Concrete Class-A and Class-B) and concrete pouring will be done with Concrete Pump with subsequent use of vibrator. Formwork will be done will folding pipes and plywood waterproof sheets and also the contractor have to seal the holes of formwork to achieve the best quality of work.

FOREIGN CURRENCY REQUIREMENTS
(If required and only in case of International Bidding)

3. The Bidder may indicate here in below his requirements of foreign currency (if any), with reference to various inputs to the Works.
4. Foreign Currency Requirement as p of the Bid Price excluding Provisional Sums ____%.
5. Table of Exchange Rates

Unit of Currency	Equivalent in Pak. Rupees
Australian Dollar	-----
Euro	-----
Japanese Yen	-----
U.K. Pound	-----
U.S. Dollars	-----
-----	-----
-----	-----

**SCHEDULE OF SPECIFIED MATERIALS
FOR THE PURPOSE OF CLAUSE 70-COC PART-II**

<i>Item No.</i>	<i>Description of Specified Material</i>	<i>Source of Index</i>	<i>Unit</i>	<i>Value of Factor "C"</i>
<i>1</i>	<i>2</i>	<i>3</i>	<i>4</i>	<i>5</i>
.	Non Adjustable			
1.	Reinforcement (Grade-60), 12mm DiaRebars			
2.	Bitumen Grade 60-70			
3.	Ordinary Portland Cement (in bulk)			
4.	Labor Unskilled / Skilled			
5.	High Speed Diesel			
Total				

Notes:

- The base prices of Specified Materials shall be as of actually prevailing on the date falling on 28 days prior to latest date of submission of Bids and shall be obtained from the respective sources and to be verified and notified by the Engineer after consent of the Employer.
- The base/current price shall be ex-factory prices and inclusive of all kinds of taxes and duties that can be levied on the material.
- Adjustment of increase/decrease shall only be admissible for the material listed above.
- Value of work done for escalation purpose shall be value of permanent works (Excluding Bill-07 & Provisional Sums).
- All amount in Pak Rupees only

BD-1

BILL OF QUANTITIES

6. Preamble

7. The Bill of Quantities shall be read in conjunction with the Conditions of Contract, Specifications and Drawings.
8. The quantities given in the Bill of Quantities are estimated and provisional, and are given to provide a common basis for bidding. The basis of payment will be the actual quantities of work executed and measured by the Contractor and verified by the Engineer and valued at the rates and prices entered in the priced Bill of Quantities, where applicable, and otherwise at such rates and prices as the Engineer may fix as per the Contract.
9. The rates and prices entered in the priced Bill of Quantities shall, except insofar as it is otherwise provided under the Contract include all costs of Contractor's plant, labour , supervision, materials, execution, insurance, profit, taxes and duties, together with all general risks, liabilities and obligations set out or implied in the Contract. Furthermore all duties, taxes and other levies payable by the Contractor under the Contract, or for any other cause, as on the date 28 days prior to deadline for submission of Bids, shall be included in the rates and prices and the total Bid Price submitted by the Bidder.
10. A rate or price shall be entered against each item in the priced Bill of Quantities, whether quantities are stated or not. The cost of items against which the Contractor will have failed to enter a rate or price shall be deemed to be covered by other rates and prices entered in the Bill of Quantities.
11. The whole cost of complying with the provisions of the Contract shall be included in the items provided in the priced Bill of Quantities, and where no items are provided, the cost shall be deemed to be distributed among the rates and prices entered for the related items of the Works.
12. General directions and description of work and materials are not necessarily repeated nor summarised in the Bill of Quantities. References to the relevant sections of the Bidding Documents shall be made before entering prices against each item in the priced Bill of Quantities.
13. Provisional sums included and so designated in the Bill of Quantities shall be expended in whole or in part at the direction and discretion of the Engineer in accordance with Sub-Clause 58.2 of Part I, General Conditions of Contract

Bill of Quantity

**SPECIAL MAINTENANCE WORK FOR RESTORATION
OF DAMAGED PORTION BETWEEN KM 113 ~ 117 (M-8)
CONTRACT # SM-BS-2019-20-04**

Bill of Quantity
SPECIAL MAINTENANCE WORK FOR RESTORATION OF DAMAGED
PORTION BETWEEN KM 113 ~ 117 (M-8)
Contract # SM-BS-2019-20-04

Sr. #	Item No.	Description	Unit	Rate	Qty	Amount
i.	209a	Breaking of existing road pavement structure	CM	610.92	465.375	284,306.90
ii.	107a	Structural Excavation in common material	CM	364.53	1,350.00	492,115.50
iii.	108c	Formation of Embankment from Borrow Excavation in Common Material	CM	434.75	4,200.00	1,825,950.00
iv.	201	Granular Sub-Base	CM	1,541.34	1,600.00	2,466,144.00
v.	206b	Water Bound Macadam with Course Agg. Class B	CM	1,835.79	600.00	1,101,474.00
vi.	207b	Deep Patching (15-30 cm)	SM	143.74	1,825.00	262,325.50
vii.	303a	Cut-Back Asphalt for Bituminous Tack Coat	SM	49.66	9,307.50	462,210.45
viii.	304b	Double Surface Treatment (For Shoulder)	SM	479.32	6,800.00	3,259,376.00
ix.	305b	Asphaltic Concrete for Wearing Course (Class-B)	CM	20,938.27	465.38	9,744,147.40
x.	401b	Concrete Class B	CM	8,442.97	1020	8,611,829.40
(Rates Based on CSR 2014 of District Khuzdar)					Total Rs.	28,509,880.00

<u>TO BE QUOTED BY THE CONTRACTOR</u>	
At _____% Above on Engineer's Estimate:	Rs. _____
At _____% Below on Engineer's Estimate:	Rs. _____
In Word Rupees _____	

Note:

- All the Concrete will be from Concrete Batching Plant and will be transported in transit mixers using additional high early strength Admixture Chemrite Rapid 1 or equivalent (0.5kg per cement bag) for Concrete Class-A and Class-B) and concrete pouring will be done with Concrete Pump with subsequent use of vibrator. Formwork will be done will folding pipes and plywood waterproof sheets and also the contractor have to seal the holes of formwork to achieve best quality of work.
- Before submitting the Bid Document, it must be ensured that all the pages of Financial Bid are properly signed and stamped by the owner of the firm / contractor's authorized-representative, and a complete set of bid Document must be provided with Financial bid.

PROPOSED CONSTRUCTION SCHEDULE

Pursuant to Sub-Clause 43.1 of the General Conditions of Contract, the Works shall be completed on or before the date stated in Appendix-A to Bid. The Bidder shall provide as Appendix-E to Bid, the Construction Schedule in the bar chart (CPM, PERT or any other to be specified herein) showing the sequence of work items and the period of time during which he proposes to complete each work item in such a manner that his proposed programme for completion of the whole of the Works and parts of the Works may meet Employer's completion targets in days noted below and counted from the date of receipt of Engineer's Notice to Commence (Attach sheets as required for the specified form of Construction Schedule):

<u>Description</u>	<u>Time for Completion</u>
Whole Works	<u>Six (06) Months</u>

METHOD OF PERFORMING THE WORK

The Bidder is required to submit a narrative outlining the method of performing the Work. The narrative should indicate in detail and include but not be limited to:

1. Organization Chart indicating head office and field office personnel involved in management and supervision, engineering, equipment maintenance and purchasing.
2. Mobilization in Pakistan, the type of facilities including personnel accommodation, office accommodation, provision for maintenance and for storage, communications, security and other services to be used.
3. The method of executing the Works, the procedures for installation of equipment and machinery and transportation of equipment and materials to the site.
4. Quality control / Quality assurance measures to be adopted including procedures to be followed for carrying out all tests required under specifications.

LIST OF MAJOR EQUIPMENT – RELATED ITEMS

The Bidder will provide a list of all major equipment and related items, on judicial Stamp Paper that these equipment shall be made available on Site. In case of failure to do so, the Work shall be terminated and work shall be carried out at the risk & cost of the contractor

LIST OF MAJOR EQUIPMENT TO BE MADE AVAILABLE AT SITE

Sr. No.	Equipment / Plants (as per site requirement)	Nos.
1.	Heavy duty Air Compressor	01
2.	Concrete Batching Plant	01
3.	Transit Mixer	03
4.	Heavy Duty Concrete Pump	02
5.	Dumper	03
6.	Dozer	02
7.	Excavator	02
8.	Vibrators etc.	03
9.	Pneumatic Concrete Breakers	03
10.	PTR	02
11.	Tandem Roller	02
12.	Paver half / full width	01
13.	Concrete Mixer	02
14.	Heavy Duty Generator	01
15.	All necessary equipment for material testing at site (as per site requirement)	-
16.	Shuttering (as per site requirement)	-
17.	And other Road work equipment (as per site requirement)	-
18.	Work Zone Safety Equipment (as per site requirement)	-

CONSTRUCTION CAMP AND HOUSING FACILITIES

The Contractor in accordance with Clause 34 of the Conditions of Contract shall provide description of his construction camp's facilities and staff housing requirements.

The Contractor shall be responsible for pumps, electrical power, water and electrical distribution systems, and sewerage system including all fittings, pipes and other items necessary for servicing the Contractor's construction camp.

The Bidder shall list or explain his plans for providing these facilities for the service of the Contract as follows:

1. Site Preparation (clearing, land preparation, etc.).
2. Provision of Services.
 - a) Power (expected power load, etc.).
 - b) Water (required amount and system proposed).
 - c) Sanitation (sewage disposal system, etc.).
3. Construction of Facilities
 - a) Contractor's Office. Workshop and Work Areas (areas required and proposed layout, type of construction of buildings, etc.).
 - b) Warehouses and Storage Areas (area required, type of construction and layout).
 - c) Housing and Staff Facilities (Plans for housing for proposed staff, layout, type of construction, etc.).
4. Construction Equipment Assembly and Preparation (detailed plans for carrying out this activity).

5. Other Items Proposed (Security services, etc.). The Contractor should mention here what are his proposed environmental measures for the project as per EPA rules like treatment of wastewater and water quality etc. The Contractor shall submit a detailed EMP (Environmental Management Plan) to describe how materials are removed from site and disposed off at a safe location, prevention for the contamination of ground and surface water in neighboring areas etc. including remedial measures for adoption.
6. Detail of testing Lab with testing equipment etc.

LIST OF SUBCONTRACTORS

I/We intend to subcontract the following parts of the Work to subcontractors. In my/our opinion, the subcontractors named hereunder are reliable and competent to perform that part of the work for which each is listed.

Enclosed are documentation outlining experience of subcontractors, the curriculum vitae and experience of their key personnel who will be assigned to the Contract, equipment to be supplied by them, size, location and type of contracts carried out in the past.

Part of Works (Give Details)	Subcontractor (With Complete Address)
1	2

ESTIMATED PROGRESS PAYMENTS

Bidder's estimate of the value of work which would be executed by him during each of the periods stated below, based on his Program of the Works and the Rates in the Bill of Quantities, expressed in thousands of Pakistani Rupees:

Quarter/ Year/ Period	Amounts (1,000 Rs.)
1	2
1st Month	
2nd Month	
3rd Month	
4 th Month	
5 th Month	
6 th Month	
Bid Price	

**ORGANIZATION CHART
FOR THE
SUPERVISORY STAFF AND LABOUR**

(INTEGRITY PACT)
DECLARATION OF FEES, COMMISSION AND BROKERAGE ETC.
PAYABLE BY THE SUPPLIERS OF GOODS, SERVICES & WORKS IN
CONTRACTS WORTH RS. 50.00 MILLION OR MORE

Contract No. SM-BS-2019-20-04

Dated _____

Contract Title:

***SPECIAL MAINTENANCE WORK FOR RESTORATION OF DAMAGED PORTION
BETWEEN KM 113 ~ 117 (M-8)***

Contract Value: _____

..... [Name of Supplier] hereby declares that it has not obtained or induced the procurement of any contract, right, interest, privilege or other obligation or benefit from Government of Pakistan (GOP) or any administrative subdivision or agency thereof or any other entity owned or controlled by GOP through any corrupt business practice.

Without limiting the generality of the foregoing, [name of Supplier] represents and warrants that it has fully declared the brokerage, commission, fees etc. paid or payable to anyone and not given or agreed to give and shall not give or agree to give to anyone within or outside Pakistan either directly or indirectly through any natural or juridical person, including its affiliate, agent, associate, broker, consultant, director, promoter, shareholder, sponsor or subsidiary, any commission, gratification, bribe, finder's fee or kickback, whether described as consultation fee or otherwise, with the object of obtaining or inducing the procurement of a contract, right, interest, privilege or other obligation or benefit in whatsoever form from GOP, except that which has been expressly declared pursuant hereto.

[Name of Supplier] certifies that it has made and will make full disclosure of all agreements and arrangements with all persons in respect of or related to the transaction with GOP and has not taken any action or will not take any action to circumvent the above declaration, representation or warranty.

[Name of Supplier] accepts full responsibility and strict liability for making any false declaration, not making full disclosure, misrepresenting facts or taking any action likely to defeat the purpose of this declaration, representation and warranty. It agrees that any contract, right, interest, privilege or other obligation or benefit obtained or procured as aforesaid shall, without prejudice to any other rights and remedies available to GoP under any law, contract or other instrument, be voidable at the option of GoP.

Notwithstanding any rights and remedies exercised by GoP in this regard, [name of Supplier] agrees to indemnify GoP for any loss or damage incurred by it on account of its corrupt business practices and further pay compensation to GoP in an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by [name of Supplier] as aforesaid for the purpose of obtaining or inducing the procurement of any contract, right, interest, privilege or other obligation or benefit in whatsoever form from GoP.

Name of Employer:

Name of Contractor:

Signature:

Signature: [Seal]

[Seal]

FINANCIAL COMPETENCE AND ACCESS TO FINANCIAL RESOURCES

The financial position of the bidder shall be checked as per following details:

1. SOUNDNESS AND ACCESS TO FINANCIAL RESOURCES:

“The Bidder must demonstrate access to, or availability of, financial resources such as liquid assets, unencumbered real assets, lines of credits, and other financial means, other than any contractual advance payments, to meet the financial requirements of the contract in the amount of his bid. As a minimum the Bidder must show that his resources, in term of at least his latest years working capital and line of credits, will be adequate to cover an amount equivalent to his bid price and current work commitments i.e.

[Working capital + Project specific lines of credit*– current contract commitments] ≥as per per NIT.

Working capital is the difference between current assets and current liabilities and measures the firm’s ability to generate cash in the short term.”

**Any line of credit indicated for this (tendered) project needs to have been certified by the Bank and the said certificate is enclosed with this Appendix. Only that Credit line Certificate shall be considered which shall be issued within Six (06) months of the date of submission of Bid.*

2. AVERAGE ANNUAL CONSTRUCTION TURNOVER

Criteria	Bidders’ to list their certified yearly turnover for last 3 years
Minimum average annual construction turnover as per NIT	

Financial competency documentation which must include the Audit reports duly prepared and attested by the Chartered Accountant Firm duly registered with ICAP, specified as under:

Audit Reports

Reference: G.M(Finance) office letter No. 1(BK&C)/2018/1619, dated; 29th October, 2018

Sr. #	Type of Organization	Minimum Requirement of Auditors	Basis of Preparation of Audit Reports	Basis of Preparation of Financial Statements
1	Corporate Entities (duly registered with Securities and Exchange Commission of Pakistan)	Licensed Accountant Firm (Chartered Partnership Firm with international affiliation) enlisted and appearing on the list of firms in ICAP directory as at the finalization of procurement.	International auditing standards as applicable in Pakistan.	i) Companies Ordinance 1984 or Companies Act 2017 (whichever is applicable). ii).International accounting and financial reporting standards as applicable in Pakistan at the time of issuance of the reports.
2	Partnership Firm / AOPs / Joint Ventures	Licensed Accountant Firm (Chartered partnership firm) enlisted and appearing on the list of firms in ICAP directory as at the finalization of procurement.	International auditing standards as applicable in Pakistan.	i) International accounting and financial reporting standards as applicable in Pakistan at the time of issuance of the reports.
3	Individuals / Sole Proprietorship	Licensed Cost & Management Accountant firms enlisted and appearing on the list of firms in ICMAP directory as at the finalization of procurement for organization of net work upto 10 Million Only. Licensed Chartered Accountant Firms enlisted and appearing on the list of firms in ICAP directory as at the finalization of procurement.	International auditing standards as applicable in Pakistan.	Consistent and acceptable accounting policies.

The Employer reserves the rights to verify the Audit Reports from the Auditors and in case of no response is received from auditors, the technical bid shall be liable to be nonresponsive.

Balance Sheet/Audit Report for last three (03) Financial Years i.e. (2017-18, 2018-19 & 2019-20)

- i) Cash Flow – Rs. 21.0 million, as per NIT
- ii) Average Turn Over – Rs. 87.00 million as per NIT

PAST PERFORMANCE, CURRENT COMMITMENT, QUALIFICATION AND EXPERIENCE

1) General Construction Experience

Requirement	Bidder to Provide details	Role
Experience under construction contracts in the role of contractor, or management contractor for at least the last 10 years prior to the bid submission deadline.		

2) Contracts of Similar Size and Nature

Requirement	Bidder to provide specific details	Role
<p>Firm that has completed at least Two (02) projects of similar size and complexity as a contractor or management contractor with a minimum value each amounting to Rs. @ 70% Engineer's Estimate of subject work, during last Five (05) years that has been successfully or is completed and that are similar to the proposed works. The similarity shall be based on the physical size, complexity, methods, technology or other characteristics as indicated in these Bidding Documents.</p> <p><i>(Letter of Award & Completion Certificates are must to be provided).</i></p>		

3) Personnel

List of Technical Staff be provided on Judicial Stamp Paper that following staff will be available for execution of the project.

- a) Structural Engineer (1 No.)
B.Sc. (Civil Engg.) having minimum 15 years overall experience with in managing bridge construction projects.
- b) Material Engineer (1 No.)
B.Sc. (Civil Engg.) or equivalent having minimum 10 years overall experience.
- c) Senior Surveyor (1 No.)
DAE (Civil) having minimum 12 years working experience.
- d) Quantity Surveyor (1 No.)
B. Sc. (Civil Engg.) having minimum 03 years working experience in quantity analysis in bridge projects OR DAE (Civil) having minimum 05 years working experience in quantity analysis in road projects.
- e) Sr. Laboratory Technician (1 No)
- f) Lab Technician (2 Nos)

(Note: *List of Technical Staff be provided on duly signed and attested Judicial Stamp Paper that above mentioned staff will be available for execution of the project. CVs containing phone numbers of the staff along with attested photocopies of PEC certificates of engineers must be provided. NHA reserves right to verify PEC Certificate and availability of staff and their interviews alongwith their original documents.)*

- 4) Data regarding past performance and present commitment of the Bidders:

Sr No.	Name of ongoing project(s)	Name of Employer	Date of		Financial Status	
			Start	Completion	Cost of the Project	Average Monthly IPC
1.						
2.						
3.						
4.						
5.						
6.						
Total						

FORMS

**BID SECURITY
PERFORMANCE SECURITY
CONTRACT AGREEMENT
MOBILIZATION ADVANCE GUARANTEE / BOND
AND
INDEMNITY BOND FOR SECURED ADVANCE**

BID SECURITY
(Bank Guarantee)

Security Executed on _____
(Date)

Name of Surety (Bank) with Address: _____
(Scheduled Bank in Pakistan)

Name of Principal (Bidder) with Address _____

Penal Sum of Security Rupees . _____(Rs. _____)

Bid Reference No. _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bid and at the request of the said Principal (Bidder)we, the Surety above named, are held and firmly bound unto

_____ (hereinafter called the 'Employer') in the sum stated above for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Bidder has submitted the accompanying Bid dated _____ for Bid No. _____ for _____(Particulars of Bid) to the said Employer; and

WHEREAS, the Employer has required as a condition for considering said Bid that the Bidder furnishes a Bid Security in the above said sum from a Scheduled Bank in Pakistan or from a foreign bank duly counter-guaranteed by a Scheduled Bank in Pakistan, to the Employer, conditioned as under:

- (1) that the Bid Security shall remain in force up to and including the date 28 days after the deadline for validity of bids as stated in the Instructions to Bidders or as it may be extended by the Employer, notice of which extension(s) to the Surety is hereby waived;
- (2) that the Bid Security of unsuccessful Bidders will be returned by the Employer after expiry of its validity or upon signing of the Contract Agreement; and
- (3) that in the event of failure of the successful Bidder to execute the proposed Contract Agreement for such work and furnish the required Performance Security, the entire said sum be paid immediately to the said Employer pursuant to Clause 15.6 of the Instruction to Bidders for the successful Bidder's failure to perform.

NOW THEREFORE, if the successful Bidder shall, within the period specified therefore, on the prescribed form presented to him for signature enter into a formal Contract with the said Employer in accordance with his Bid as accepted and furnish within twenty eight (28) days of his being requested to do so, a Performance Security with good and sufficient surety, as may be required, upon the form prescribed by the said Employer for the faithful performance and proper fulfilment of the said Contract or in the event of non-withdrawal of the said Bid within the time specified for its validity then this obligation shall be void and of no effect, but otherwise to remain in full force and effect.

PROVIDED THAT the Surety shall forthwith pay the Employer, the said sum upon first written demand of the Employer (without cavil or argument) and without requiring the Employer to prove or to show grounds or reasons for such demand, notice of which shall be sent by the Employer by registered post duly addressed to the Surety at its address given above.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Bidder) has duly performed his obligations to sign the Contract Agreement and to furnish the requisite Performance Security within the time stated above, or has defaulted in fulfilling said requirements and the Surety shall pay without objection the said sum upon demand from the Employer forthwith and without any reference to the Principal (Bidder) or any other person.

IN WITNESS WHEREOF, the above bounden Surety has executed the instrument under its seal on the date indicated above, the name and seal of the Surety being hereto affixed and these presents duly signed by its undersigned representative pursuant to authority of its governing body.

SURETY (Bank)

WITNESS:

Signature _____

1. _____

Name _____

Title _____

Corporate Secretary (Seal)

Corporate Guarantor (Seal)

2. _____

Name, Title & Address

FORM OF PERFORMANCE SECURITY

Guarantee No. _____

Executed on _____

Expiry date _____

[Letter by the Guarantor to the Employer]

Name of Guarantor (Bank) with address: _____

(Scheduled Bank in Pakistan)

Name of Principal (Contractor) with address: _____

Penal Sum of Security (express in words and figures) _____

Letter of Acceptance No. _____ Dated _____

KNOW ALL MEN BY THESE PRESENTS, that in pursuance of the terms of the Bidding Documents and above said Letter of Acceptance (hereinafter called the Documents) and at the request of the said Principal we, the Guarantor above named, are held and firmly bound unto the _____ (hereinafter called the Employer)

in the penal sum of the amount stated above for the payment of which sum well and truly to be made to the said Employer, we bind ourselves, our heirs, executors, administrators and successors, jointly and severally, firmly by these presents.

THE CONDITION OF THIS OBLIGATION IS SUCH, that whereas the Principal has accepted the Employer's above said Letter of Acceptance for _____ (Name of Contract) for the _____

_____ (Name of Project).

NOW THEREFORE, if the Principal (Contractor) shall well and truly perform and fulfill all the undertakings, covenants, terms and conditions of the said Documents during the original terms of the said Documents and any extensions thereof that may be granted by the Employer, with or without notice to the Guarantor, which notice is, hereby, waived and shall also well and truly perform and fulfill all the undertakings, covenants terms and conditions of the Contract and of any and all modifications of said Documents that may hereafter be made, notice of which modifications to the Guarantor being hereby waived, then, this obligation to be void; otherwise to remain in full force and virtue till all requirements of Clause 49, Defects Liability, of Conditions of Contract are fulfilled.

Our total liability under this Guarantee is limited to the sum stated above and it is a condition of any liability attaching to us under this Guarantee that the claim for payment in writing shall be received by us within the validity period of this Guarantee, failing which we shall be discharged of our liability, if any, under this Guarantee.

We, _____ (the Guarantor), waiving all objections and defences under the Contract, do hereby irrevocably and independently guarantee to pay to the Employer without delay upon the Employer's first written demand without cavil or arguments and without requiring the Employer to prove or to show grounds or reasons for such demand any sum or sums up to the amount stated above, against the Employer's written declaration that the Principal has refused or failed to perform the obligations under the Contract which payment will be effected by the Guarantor to Employer's designated Bank & Account Number.

PROVIDED ALSO THAT the Employer shall be the sole and final judge for deciding whether the Principal (Contractor) has duly performed his obligations under the Contract or has defaulted in fulfilling said obligations and the Guarantor shall pay without objection any sum or sums up to the amount stated above upon first written demand from the Employer forthwith and without any reference to the Principal or any other person.

IN WITNESS WHEREOF, the above-bounden Guarantor has executed this Instrument under its seal on the date indicated above, the name and corporate seal of the Guarantor being hereto affixed and these presents duly signed by its undersigned representative, pursuant to authority of its governing body.

Witness:	_____	Guarantor (Bank)
1. _____		Signature _____
_____		Name _____
Corporate Secretary (Seal)		Title _____
2. _____		
_____		_____
Name, Title & Address		Corporate Guarantor (Seal)

FORM OF CONTRACT AGREEMENT

THIS CONTRACT AGREEMENT (hereinafter called the "Agreement") made on the day of _____ between National Highway Authority, 28 Mauve Area G-9/1, Islamabad. (hereinafter called the "Employer" which expression shall include the successors, legal representatives and permitted assignees) of the one part and _____ (hereinafter called the "Contractor") of the other part.

WHEREAS bids have been received by the Employer for work _____ and bid of the Contractor for the said work amounting to "**Rupees** _____ **only**" (**Rs** _____) has been accepted by the Employer vide letter No. _____ dated _____ for the execution and completion of such Works in all respects and the remedying of any defects therein.

NOW this Agreement witnessed as follows:

1. In this Agreement words and expressions shall have the same meanings as are respectively assigned to them in the Conditions of Contract hereinafter referred to.
2. The following documents after incorporating addenda, if any, except those parts relating to Instructions to Bidders shall be deemed to form and be read and construed as part of this Agreement, viz:
 - (a) The Contract Agreement;
 - (b) The Letter of Acceptance;
 - (c) The completed Form of Bid;
 - (d) Addendum/Corrigendum to Bid (if any);
 - (e) Special Stipulations (Appendix-A to Bid);
 - (f) The Particular Conditions of Contract – Part II;
 - (g) The General Conditions – Part I;
 - (h) The priced Bill of Quantities (Appendix-D to Bid);
 - (i) The completed Appendices to Bid (B, C, E to L);
 - (j) Special Provisions;
 - (k) Supplementary Specifications;
 - (l) Particular Specifications;
 - (j) The Drawings;
 - (k) NHA General Specifications and its addendum;
 - (l) Performance Security
3. In consideration of the payments to be made by the Employer to the Contractor as hereinafter mentioned, the Contractor hereby covenants with the Employer to execute and complete the Works and remedy defects therein in conformity and in all respects with the provisions of the Contract.

Continued.....

:2:

4. The Employer hereby covenants to pay the Contractor, in consideration of the execution and completion of the Works as per provisions of the Contract, the Contract Price or such other sum as may become payable under the provisions of the Contract at the times and in the manner prescribed by the Contract.
5. The work shall commence within Seven (07) days of issuance of Letter of Commencement and the Contractor shall fully complete the work within **Six (06) Months.** The Defect Liability Period for the said work is **(365) Days from the date of Completion.**

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed on the day, month and year first before written in accordance with their respective laws.

For and on behalf of Contractor

For and on behalf of
National Highway Authority

Signed, Sealed and Delivered in the presence of:

Witness:

By _____

By _____

MOBILIZATION ADVANCE GUARANTEE

Guarantee No. _____ Date _____

WHEREAS _____ (hereinafter called the 'Employer') has entered into a Contract for

_____ (Particulars of Contract)
with _____ (hereinafter called the "Contractor").

AND WHEREAS, the Employer has agreed to advance to the Contractor, at the Contractor's request, an amount of Rupees _____ (Rs _____) which amount shall be advanced to the Contractor as per provisions of the Contract.

AND WHEREAS, the Employer has asked the Contractor to furnish Guarantee to secure the mobilization advance for the performance of his obligations under the said Contract.

AND WHEREAS, _____
(Scheduled Bank in Pakistan or Insurance Company acceptable to the Employer)
(hereinafter called the "Guarantor") at the request of the Contractor and in consideration of the Employer agreeing to make the above advance to the Contractor, has agreed to furnish the said Guarantee.

NOW, THEREFORE, the Guarantor hereby guarantees that the Contractor shall use the advance for the purpose of above mentioned Contract and if he fails and commits default in fulfilment of any of his obligations for which the advance payment is made, the Guarantor shall be liable to the Employer for payment not exceeding the aforementioned amount.

Notice in writing of any default, of which the Employer shall be the sole and final judge, on the part of the Contractor, shall be given by the Employer to the Guarantor, and on such first written demand, payment shall be made by the Guarantor of all sums then due under this Guarantee without any reference to the Contractor and without any objection.

This Guarantee shall remain in force until the advance is fully adjusted against payments from the Interim Payment Certificates of the Contractor or until _____ whichever is earlier.
(Date)

The Guarantor's liability under this Guarantee shall not in any case exceed the sum of Rupees _____ (Rs _____).

This Guarantee shall remain valid up to the aforesaid date and shall be null and void after the aforesaid date or earlier if the advance made to the Contractor is fully adjusted against payments from Interim Payment Certificates of the Contractor provided that the Guarantor agrees that the aforesaid period of validity shall be deemed to be extended if on the above mentioned date the advance payment is not fully adjusted.

GUARANTOR

- 1. Signature _____
- 2. Name _____
- 3. Title _____

WITNESS

- 1. _____

Corporate Secretary (Seal)

- 2. _____
(Name Title & Address)
- _____ Corporate Guarantor(Seal)

**INDEMNITY BOND
FOR SECURED ADVANCE
AGAINST MATERIALS BROUGHT AT SITE**

(ON RS 40 NONJUDICIAL STAMP PAPER)

This Deed of Indemnity is made this _____ M/s. _____
(Name of the Contractor) in favour of
M/s. _____ (Name of the Employer).

Whereas _____ (hereinafter called the Employer) has paid the Secured Advance against the cost of material through any Bank or like agency by any other method by virtue of the terms of the contract existing between the parties. The details of the material and their price for which secured advance is being sought for the period _____ till consumption of the material is as under:-

- | | | | |
|----------|--------------|-----------|-------------|
| 1. _____ | at Rs. _____ | per _____ | = Rs. _____ |
| 2. _____ | at Rs. _____ | per _____ | = Rs. _____ |
| 3. _____ | at Rs. _____ | per _____ | = Rs. _____ |
| 4. _____ | at Rs. _____ | per _____ | = Rs. _____ |

THEREFORE THIS DEED OF INDEMNITY WITNESSETH AS FOLLOWS:

I/We _____ of M/s. _____ do hereby indemnify M/s _____ for all losses due to thefts, arson, pilferage, loss due to flood and inundation, shortage, deterioration and depreciation etc. through any act of Man or God or slump in the Market of any or all the materials financed or paid by the Employer on our request for financing payment against material.

I/We _____ shall indemnify _____ against any or all claims, action damages arising out of or resulting to the said material.

I/We _____ further declare that we will faithfully abide by the above declaration and solemnly affirm that we will not remove, sell, pilferage any of the materials against which M/s _____ has paid us such a secured advance and will not pledge the same with any Bank, Finance Corporation, Firm, Company, Individual or the like agency or create any charge whereon in any from what so ever.

I/We _____ do hereby also declare that in the event of my/our infringement of the declaration made above _____ will be entitled to forfeit all such material and also proceed against me/us according to the relevant clause pertaining to breach of contract and further invoke the power or seek any remedies secured of _____ under the contract Agreement signed with us or otherwise available under law.

Place _____ Dated _____

Contractor _____



CONDITIONS OF CONTRACT

FOR WORKS OF CIVIL

ENGINEERING CONSTRUCTION

PART I GENERAL CONDITIONS

WITH FORMS OF TENDER AND AGREEMENT

FOURTH EDITION 1987

Reprinted 1988 with editorial amendments

Reprinted in 1992 with further amendments

“Copies of the FIDIC Conditions of Contract can be obtained from:

FIDIC Secretariat

P.O. Box 86

1100 Lausanne 12

Switzerland

e-mail: fidic.pub@fidic.org – FIDIC.org/book

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PART II - PARTICULAR CONDITIONS OF CONTRACT

1.1 Definitions

- (a) (i) The Employer is the Chairman National Highway Authority HQ, 28 Mauve Area G-9/1, Islamabad.
- (a) (iv) The Engineer is the concerned Member (Zone) , or any other competent person appointed by the Employer, and notified to the Contractor, to act in replacement of the Engineer. Provided always that except in cases of professional misconduct, the outgoing Engineers is to formulate his certifications/recommendations in relation to all outstanding matters, disputes and claims relating to the execution of the Works during his tenure.

The following paragraph is added:

- (a)(vi) “Bidder or Tenderer” means any person or persons, company, corporation, firm or joint venture submitting a Bid or Tender.
- (b)(v) The following is added at the end of the paragraph:

The word “Tender” is synonymous with “Bid” and the word “Tender Documents” with “Bidding Documents”.

The following paragraph is added:

- (b)(ix) “Programme” means the programme to be submitted by the Contractor in accordance with Sub-Clause 14.1 and any approved revisions thereto.
- (e)(i) The text is deleted and substituted with the following:

“Contract Price” means the sum stated in the Letter of Acceptance as payable to the Contractor for the execution and completion of the Works subject to such additions thereto or deductions there from as may be made and remedying of any defects therein in accordance with the provisions of the Contract.

2.1 Engineer's Duties and Authority

With reference to Sub-Clause 2.1(b), the following provisions shall also apply;
The Engineer shall obtain the specific approval of the Employer before carrying out his duties in accordance with the following Clauses as per provisions of NHA code 2005:

- (i) Consenting to the sub-letting of any part of the Works under Sub-Clause 4.1 “Subcontracting”.
- (ii) Certifying additional cost determined under Sub-Clause 12.2 “Not Foreseeable Physical Obstructions or Conditions”.
- (iii) Any action under Clause 10 “Performance Security” and Clauses 21,23,24 &25 “Insurance” of sorts.
- (iv) Any action under Clause 40 “Suspension”.
- (v) Any action under Clause 44 “Extension of Time for Completion”.

- (vi) Any action under Clause 47 “Liquidated Damages for Delay” or Payment of Bonus for Early Completion of Works (PCC Sub-Clause 47.3).
- (vii) Issuance of “Taking Over Certificate” under Clause 48.
- (viii) Issuing a Variation Order under Clause 51, except:
 - a) in an emergency* situation, as stated here below, or
 - b) if such variation would increase the Contract Price by less than the amount stated in the Appendix-A to Bid.
- (ix) Fixing rates or prices under Clause 52.
- (x) Extra payment as a result of Contractor’s claims under Clause 53.
- (xi) Release of Retention Money to the Contractor under Sub-Clause 60.3 “Payment of Retention Money”.
- (xii) Issuance of “Final Payment Certificate” under Sub-Clause 60.8.
- (xiii) Issuance of “Defect Liability Certificate” under Sub-Clause 62.1.
- (xiv) Any change in the ratios of Contract currency proportions and payments thereof under Clause 72 “Currency and Rate of Exchange”.

* (If in the opinion of the Engineer an emergency occurs affecting the safety of life or of the Works or of adjoining property, the Engineer may, without relieving the Contractor of any of his duties and responsibilities under the Contract, instruct the Contractor to execute all such work or to do all such things as may, in the opinion of the Engineer, be necessary to abate or reduce the risk. The Contractor shall forthwith comply with any such instruction of the Engineer. The Engineer shall determine an addition to the Contract Price, in respect of such instruction, in accordance with Clause 52 and shall notify the Contractor accordingly, with a copy to the Employer.)

2.2 Engineer’s Representative

The following paragraph is added:

The Employer shall ensure that the Engineer’s Representative is a professional engineer as defined in the Pakistan Engineering Council Act 1975 (V of 1976)

The following Sub-Clauses 2.7 and 2.8 are added:

2.7 Engineer Not Liable

Approval, reviews and inspection by the Engineer of any part of the Works does not relieve the Contractor from his sole responsibility and liability for the supply of materials, plant and equipment for construction of the Works and their parts in accordance with the Contract and neither the Engineer's authority to act nor any decision made by him in good faith as provided for under the Contract whether to exercise or not to exercise such authority shall give rise to any duty or responsibility of the Engineer to the Contractor, any Subcontractor, any of their representatives or employees or any other person performing any portion of the Works.

2.8 Replacement of the Engineer

“If the Employer intends to replace the Engineer, the Employer shall, not less than 14 days before the intended date of replacement, give notice to the Contractor, of the name, address and relevant experience of the intended replacement Engineer. The Employer shall not replace the Engineer with a person against whom the Contractor raises reasonable objection by notice to the Employer, with supporting particulars.”

5.1 Language(s) and Law

- (a) The Contract Documents, shall be drawn up in the English language.
- (b) The Contract shall be subject to the Laws of Islamic Republic of Pakistan.

5.2 Priority of Contract Documents

The documents listed at (1) to (6) of the Sub-Clause are deleted and substituted with the following:

- (a) The Contract Agreement;
- (b) The Letter of Acceptance;
- (c) The completed Form of Bid;
- (d) Addendum/Corrigendum to Bid (if any);
- (e) Special Stipulations (Appendix-A to Bid);
- (f) The Particular Conditions of Contract – Part II;
- (g) The General Conditions – Part I;
- (h) The priced Bill of Quantities (Appendix-D to Bid);
- (i) The completed Appendices to Bid (B, C, E to L);
- (j) Special Provisions;
- (k) Supplementary Specifications;
- (l) Particular Specifications;
- (j) The Drawings;
- (k) NHA General Specifications and its addendum;
- (l) Performance Security

In case of discrepancies between drawings, those of larger scale shall govern unless they are superseded by a drawing of later date regardless of scale. All Drawings and Specifications shall be interpreted in conformity with the Contract and these Conditions. Addendum, if any, shall be deemed to have been incorporated at the appropriate places in the documents forming the Contract.

The following Sub-Clauses 6.6 and 6.7 are added:

6.6 Shop Drawings

The Contractor shall submit to the Engineer for review 2 copies of all shop and erection drawings applicable to this Contract as per provision of relevant Sub-Clause of the Contract.

Review and approval by the Engineer shall not be construed as a complete check but will indicate only that the general method of construction and detailing is satisfactory and that the Engineer’s review or approval shall not relieve the Contractor of any of his responsibilities under the Contract.

6.7 As-Built Drawings

At the completion of the Works under the Contract, the Contractor shall furnish to the Engineer 3 copies and one reproducible of all drawings amended to conform with the Works as built. The price of such Drawings shall be deemed to be included in the Contract Price.

10.1 Performance Security

The text is deleted and substituted with the following:

The Contractor shall provide Performance Security to the Employer in the prescribed form. The said Security shall be furnished or caused to be furnished by the Contractor within 14 days after the receipt of the Letter of Acceptance. The Performance Security shall be of an amount equal to 10% of the Contract Price stated in the Letter of Acceptance in the form of bank guarantee from any Scheduled Bank in Pakistan or (b) bank guarantee from a bank located outside Pakistan duly counter-guaranteed by a Scheduled Bank in Pakistan OR 10% of the Contract Price stated in the Letter of Acceptance in the form of performance Guarantee issued by an NHA's approved Insurance Company having at least A rating from PACRA/JCR. The cost of complying with requirements of this Sub-Clause shall be borne by the Contractor.

The following Sub-Clause 10.4 is added:

10.4 Performance Security Binding on Variations and Changes

The Performance Security shall be binding irrespective of changes in the quantities or variations in the Works or extensions in Time for Completion of the Works which are granted or agreed upon under the provisions of the Contract.

14.1 Programme to be submitted

The programme shall be submitted within 42 days from the date of receipt of Letter of Acceptance, which shall be in the form of:

- i) A Bar Chart identifying the critical activities.

Only those items or works taken from the Bills of Quantities and specified and contained in each Interim and the Final Work Schedule issued by the Engineer during the Contract Period, will be required to be done by the Contractor for subsequent measurements and payments. No Works additional to the Scheduled Works as issued by the Engineer will be paid for, even if they are included in the total quantities contained within the Bill of Quantities.

14.3 Cash Flow Estimate to be submitted

The detailed Cash Flow Estimate shall be submitted within 42 days from the date of receipt of Letter of Acceptance

The following Sub-Clause 14.5 is added:

14.5 Detailed Programme and Monthly Progress Report

- a) For purposes of Sub-Clause 14.1, the Contractor shall submit to the Engineer detailed programme for the following:
 - (1) Execution of Works;
 - (2) Labour Employment;
 - (3) Local Material Procurement;

- (4) Material Imports, if any; and
- (5) Other details as required by the Engineer.
- (b) During the period of the Contract, the Contractor shall submit to the Engineer not later than the 8th day of the following month, 03 copies each of Monthly Progress Reports covering:
 - (1) A Construction Schedule indicating the monthly progress in percentage;
 - (2) Description of all work carried out since the last report;
 - (3) Description of the work planned for the next 56 days sufficiently detailed to enable the Engineer to determine his programme of inspection and testing;
 - (4) Monthly summary of daily job record;
 - (5) Photographs to illustrate progress; and
 - (6) Information about problems and difficulties encountered, if any, and proposals to overcome the same.
- (c) During the period of the Contract, the Contractor shall keep a daily record of the work progress, which shall be made available to the Engineer as and when requested. The daily record shall include particulars of weather conditions, number of men working, deliveries of materials, quantity, location and assignment of Contractor's equipment.

The following Sub-Clauses 15.2 and 15.3 are added:

15.2 Language Ability of Contractor's Representative

The Contractor's authorized representative shall be fluent in the English language. Alternately an interpreter with ability of English language shall be provided by the Contractor on full time basis.

15.3 Contractor's Representative

The Contractor's authorised representative and his other professional engineers working at Site shall register themselves with the Pakistan Engineering Council.

The Contractor's authorised representative at Site shall be authorised to exercise adequate administrative and financial powers on behalf of the Contractor so as to achieve completion of the Works as per the Contract.

The following Sub-Clauses 16.3 and 16.4 are added:

16.3 Language Ability of Superintending Staff of Contractor

A reasonable proportion of the Contractor's superintending staff shall have a working knowledge of the English language. If the Contractor's superintending staff are not fluent in English language, the Contractor shall make competent interpreters available during all working hours in a number deemed sufficient by the Engineer.

16.4 Employment of Local Personnel

The Contractor is encouraged, to the extent practicable and reasonable, to employ staff and labour from sources within Pakistan.

The following Sub-Clauses 19.3 and 19.4 are added:

19.3 Safety Precautions

In order to provide for the safety, health and welfare of persons, and for prevention of damage of any kind, all operations for the purposes of or in connection with the Contract shall be carried out in compliance with the Safety Requirements of the Government of Pakistan with such modifications thereto as the Engineer may authorise or direct and the Contractor shall take or cause to be taken such further measures and comply with such further requirements as the Engineer may determine to be reasonably necessary for such purpose.

The Contractor shall make, maintain and submit reports to the Engineer concerning safety, health and welfare of persons and damage to property, as the Engineer may from time to time prescribe.

19.4 Lighting Work at Night

In the event of work being carried out at night, the Contractor shall at his own cost, provide and maintain such good and sufficient light as will enable the work to proceed satisfactorily and without danger. The approaches to the Site and the Works where the night-work is being carried out shall be sufficiently lighted. All arrangement adopted for such lighting shall be to the satisfaction of the Engineer's Representative.

20.4 Employer's Risks

The Employer's risks are:

Delete the text and substitute with the following:

- (a) insofar as they directly affect the execution of the Works in Pakistan:
 - (i) war and hostilities (whether war be declared or not), invasion, act of foreign enemies,
 - (ii) rebellion, revolution, insurrection, or military or usurped power, or civil war,
 - (iii) ionizing radiations, or contamination by radioactivity from any nuclear fuel, or from any nuclear waste from the combustion of nuclear fuel, radioactive toxic explosive or other hazardous properties of any explosive nuclear assembly or nuclear component thereof,
 - (iv) pressure waves caused by aircraft or other aerial devices travelling at sonic or supersonic speeds,
 - (v) riot, commotion or disorder, unless solely restricted to the employees of the Contractor or of his Subcontractors and arising from the conduct of the Works;
- (b) loss or damage due to the use or occupation by the Employer of any Section or part of the Permanent Works, except as may be provided for in the Contract;
- (c) loss or damage to the extent that it is due to the design of the Works, other than any part of the design provided by the Contractor or for which the Contractor is responsible; and
- (d) any operation of the forces of nature (insofar as it occurs on the Site) which an experienced contractor:
 - (i) could not have reasonably foreseen, or
 - (ii) could reasonably have foreseen, but against which he could not reasonably have taken at least one of the following measures:
 - (a) Prevent loss or damage to physical property from occurring by taking appropriate measures, or
 - (b) insure against.

25.5 Insurance Company

The Contractor shall be obliged to place all insurances relating to the Contract (including, but not limited to, the insurances referred to in Clauses 21, 23 and 24) with either National Insurance Company of Pakistan or any other insurance company operating in Pakistan and acceptable to the Employer having at least AA Rating.

Costs of such insurances shall be borne by the Contractor.

The following Sub-Clause 31.3 is added:

31.3 Co-operation with other Contractors

During the execution of the Works, the Contractor shall co-operate fully with other contractors working for the Employer at and in the vicinity of the Site and also shall provide adequate precautionary facilities not to make himself a nuisance to local residents and other contractors.

The following Sub-Clauses 34.2 to 34.12 are added:

34.2 Rates of Wages and Conditions of Labour

The Contractor shall pay rates of wages and observe conditions of labour not less favourable than those established for the trade or industry where the work is carried out. In the absence of any rates of wages or conditions of labour so established, the Contractor shall pay rates of wages and observe conditions of labour which are not less favourable than the general level of wages and conditions observed by other employers whose general circumstances in the trade or in industry in which the Contractor is engaged are similar.

34.3 Employment of Persons in the Service of Others

The Contractor shall not recruit his staff and labour from amongst the persons in the services of the Employer or the Engineer; except with the prior written consent of the Employer or the Engineer, as the case may be.

34.4 Housing for Labour

Save insofar as the Contract otherwise provides, the Contractor shall provide and maintain such housing accommodation and amenities as he may consider necessary for all his supervisory staff and labour, employed for the purposes of or in connection with the Contract including all fencing, electricity supply, sanitation, cookhouses, fire prevention, water supply and other requirements in connection with such housing accommodation or amenities. On completion of the Contract, these facilities shall be handed over to the Employer or if the Employer so desires, the temporary camps or housing provided by the Contractor shall be removed and the Site reinstated to its original condition, all to the approval of the Engineer.

34.5 Health and Safety

Due precautions shall be taken by the Contractor, and at his own cost, to ensure the safety of his staff and labour at all times throughout the period of the Contract. The Contractor shall further ensure that suitable arrangements are made for the prevention of epidemics and for all necessary welfare and hygiene requirements.

34.6 Epidemics

In the event of any outbreak of illness of an epidemic nature, the Contractor shall comply with and carry out such regulations, orders and requirements as may be made by the Government, or the local medical or sanitary authorities, for purpose of dealing with and overcoming the same.

34.7 Supply of Water

The Contractor shall, so far as is reasonably practicable, having regard to local conditions, provide on the Site, to the satisfaction of the Engineer or his representative, adequate supply of drinking and other water for the use of his staff and labour.

34.8 Alcoholic Liquor or Drugs

The Contractor shall not, otherwise than in accordance with the Statutes, Ordinances and Government Regulations or Orders for the time being in force, import, sell, give, barter or otherwise dispose of any alcoholic liquor or drugs, or permit or suffer any such importation, sale, gift, barter or disposal by his Subcontractors, agents, staff or labour.

34.9 Arms and Ammunition

The Contractor shall not give, or otherwise dispose of to any person or persons, any arms or ammunition of any kind or permit or suffer the same as aforesaid.

34.10 Festivals and Religious Customs

The Contractor shall in all dealings with his staff and labour have due regard to all recognized festivals, days of rest and religious and other customs.

34.11 Disorderly Conduct

The Contractor shall at all times take all reasonable precautions to prevent any unlawful, riotous or disorderly conduct by or amongst staff and labour and for the preservation of peace and protection of persons and property in the neighborhood of the Works against the same.

The following Sub-Clauses 35.2 and 35.3 are added:

35.2 Records of Safety and Health

The Contractor shall maintain such records and make such reports concerning safety, health and welfare of persons and damage to property as the Engineer may from time to time prescribe.

35.3 Reporting of Accidents

The Contractor shall report to the Engineer details of any accident as soon as possible after its occurrence. In the case of any fatality or serious accident, the Contractor shall, in addition, notify the Engineer immediately by the quickest available means.

The following Sub-Clause 36.6 is added:

36.6 Use of Pakistani Materials and Services

The Contractor shall, so far as may be consistent with the Contract, make the maximum use of materials, supplies, plant and equipment indigenous to or produced or fabricated in

Pakistan and services, available in Pakistan provided such materials, supplies, plant, equipment and services shall be of required standard.

41.1 Commencement of Works

The text is deleted and substituted with the following:

The Contractor shall commence the Works on Site within the period named in Appendix-A to Bid from the date of receipt by him from the Engineer of a written Notice to Commence. Thereafter, the Contractor shall proceed with the Works with due expedition and without delay.

48.2 Taking Over of Sections or Parts

For the purposes of para (a) of this Sub-Clause, separate Times for Completion shall be provided in the Appendix-A to Bid "Special Stipulations".

51.2 Instructions for Variations

At the end of the first sentence, after the word "Engineer", the words "in writing" are added.

52.1 Valuation of Variations

In the tenth line, after the words "Engineer shall" the following is added:
within a period not exceeding one-eighth of the completion time subject to a minimum of 56 days from the date of disagreement whichever is later.

53.4 Failure to Comply

This Sub-Clause is deleted in its entirety.

54.5 Conditions of Hire of Contractor's Equipment

The following paragraph is added:

The Contractor shall, upon request by the Engineer at any time in relation to any item of hired Contractor's Equipment, forthwith notify the Engineer in writing the name and address of the Owner of the equipment and shall certify that the agreement for the hire thereof contains a provision in accordance with the requirements set forth above.

The following Sub-Clauses 59.4 & 59.5 are added:

59 Nominated Subcontractors

This clause is deleted in its entirety.

60.1 Monthly Statements

In the first line after the word "shall", the following is added:

"on the basis of the joint measurement of work done under Clause 56.1,"

60.3 Payment of Retention Money

(b) The text is deleted and substituted with the following.

Upon the expiration of the Defects Liability Period and the clearance from audit for the Works, the other half of the Retention Money shall be certified by the Engineer for payment to the Contractor. Provided that, in the event of different Defects Liability Periods having become applicable to different Sections or part of the Permanent Works pursuant to Clause 48, the expression "expiration of the Defects Liability Period" shall, for the purposes of this Sub-Clause, be deemed to mean the expiration of the latest of such periods. Provided also that if at such time, there shall remain to be executed by the

Contractor any work instructed, pursuant to Clause 49 and 50, in respect of the Works, the Engineer shall be entitled to withhold certification until completion of such work of so much of the balance of the Retention Money as shall, in the opinion of the Engineer, represent the cost of the work remaining to be executed.

60.10 Time for Payment

The text is deleted and substituted with the following:

The amount due to the Contractor under any Interim Payment Certificate issued by the Engineer pursuant to this Clause, or to any other terms of the Contract, shall, subject to Clause 47, be paid by the Employer to the Contractor within 42 days after such Interim Payment Certificate has been jointly verified by Employer and Contractor, or, in the case of the Final Certificate referred to in Sub Clause 60.8, within 60 days after such Final Payment Certificate has been jointly verified by Employer and Contractor.

60.11 Financial Assistance to Contractor

Provision is made in the Contract for Contractor to obtain an interest free mobilization advance and Employer will proceed as per following method:

- (a) An interest-free Mobilization Advance @ 10 % of the Contract Price stated in the Letter of Acceptance less provisional sums (if any) shall be paid by the Employer to the Contractor in two equal parts upon submission by the Contractor of an irrevocable without recourse Mobilization Advance Guarantee for the full amount of the Advance in the specified form from a Scheduled Bank in Pakistan acceptable to the Employer:
- (1) First part within 14 days after signing of the Contract Agreement or date of receipt of Engineer's Notice to Commence, whichever is earlier; and
 - (2) Second part within 42 days from the date of payment of the first part, subject to the satisfaction of the Engineer as to the state of mobilization of the Contractor.
- (b) This Advance shall be recovered in equal installments; first installment at the expiry of 1st month after the date of payment of first part of Advance and the last installment one month before the date of completion of the Works as per Clause 43 hereof.

63.1 Default of Contractor

The following para is added at the end of the Sub-Clause:

Provided further that in addition to the action taken by the Employer against the Contractor under this Clause, the Employer may also refer the case of default of the Contractor to Pakistan Engineering Council for punitive action under the Construction and Operation of Engineering Works Bye-Laws 1987, as amended from time to time.

65.2 Special Risks

The text is deleted and substituted with the following:

The Special Risks are the risks defined under Sub-Clause 20.4 sub paragraphs (a) (i) to (a) (v).

67.3 Arbitration

In the sixth to eight lines, the words “shall be finally settled appointed under such Rules” are deleted and substituted with the following:

shall be finally settled under the provisions of the Arbitration Act, 1940 as amended or any statutory modification or re-enactment thereof for the time being in force.

The following paragraph his added:

The place of arbitration shall be Islamabad Pakistan.

68.1 Notice to Contractor

The following paragraph is added:

For the purposes of this Sub-Clause, the Contractor shall, immediately after receipt of Letter of Acceptance, intimate in writing to the Employer and the Engineer by registered post, the address of his principal place of business or any change in such address during the period of the Contract.

68.2 Notice to Employer and Engineer

For the purposes of this Sub-Clause, the respective address are:

a) The Employer :

Chairman NHA, 27 Mauve Area, G-9/1 Islamabad.

b) The Engineer:

Member (West Zone), NHA Quetta

70.1 Increase or Decrease of Cost

Sub-Clause 70.1 is deleted in its entirety, and substituted with the following:

The amounts payable to the Contractor, pursuant to Sub-Clause 60.1, shall be adjusted in respect of the rise or fall in the cost of labor, materials, and other inputs to the Works, by applying to such amount the formula prescribed in this Sub-Clause.

(a) Other Changes in Cost

To the extent that full compensation for any rise or fall in costs to the Contractor is not covered by the provisions of this or other Clauses in the Contract, the unit rates and prices included in the Contract shall be deemed to include amounts to cover the contingency of such other rise or fall of costs.

(b) Adjustment Formula

The adjustment to the monthly statements in respect of changes in cost shall be determined from the following formula:-

$$P_n = A + b \frac{I_n}{I_o} + c \frac{M_n}{M_o} + d \frac{E_n}{E_o} + \dots$$

Where:

P_n is a price adjustment factor to be applied to the amount for the payment of the work carried out in the subject month, determined in accordance with Paragraph 60.1 (a), and with Paragraphs 60.1 (b) and (e), where any variations and day work are not otherwise subject to adjustment;

A is a constant, specified in Appendix-C to Bid, representing the nonadjustable portion in contractual payments;

b, c, d, etc., are weight ages or coefficients representing the estimated proportion of each cost element (labour, cement and reinforcing steel etc.) in the Works or Sections thereof, net of Provisional Sums and Prime Cost; the sum of A, b, c, d, etc., shall be one;

L_n, M_n, E_n, etc., are the current cost indices or reference prices of the cost elements for month “n”, determined pursuant to Sub-Clause 70.1(d), applicable to each cost element; and

L_o, M_o, E_o, etc., are the base cost indices or reference prices corresponding to the above cost elements at the date specified in Sub-Clause 70.1(d).

(c) Sources of Indices and Weight ages

The sources of indices shall be those listed in Appendix-C to Bid, as approved by the Engineer. As the proposed basis for price adjustment, the Contractor shall have submitted with his bid the tabulation of Weight ages and Source of Indices if different than those given in Appendix-C to Bid, which shall be subject to approval by the Engineer.

(d) Base, Current, and Provisional Indices

The base cost indices or prices shall be those prevailing on the day 28 days prior to the latest date for submission of bids. Current indices or prices shall be those prevailing on the day 28 days prior to the last day of the period to which a particular monthly statement is related. If at any time the current indices are not available, provisional indices as determined by the Engineer will be used, subject to subsequent correction of the amounts paid to the Contractor when the current indices become available.

(e) Adjustment after Completion

If the Contractor fails to complete the Works within the Time for Completion prescribed under Clause 43, adjustment of prices thereafter until the date of completion of the Works shall be made using either the indices or prices relating to the prescribed time for completion, or the current indices or prices, whichever is more favorable to the Employer, provided that if an extension of time is granted pursuant to Clause 44, the above provision shall apply only to adjustments made after the expiry of such extension of time.

(f) Weight ages

The weight ages for each of the factors of cost given in Appendix-C to Bid shall be adjusted if, in the opinion of the Engineer, they have been rendered unreasonable, unbalanced, or inapplicable as a result of varied or additional work executed or instructed under Clause 51. Such adjustment(s) shall have to be agreed in the variation order.

The following Sub-Clauses 73.1, 73.2, 74.1, 75.1, 76.1, 77.1 and 78.1 are added:

73.1 Payment of Income Tax

The Contractor, Subcontractors and their employees shall be responsible for payment of all their income tax, super tax and other taxes on income arising out of the Contract

and the rates and prices stated in the Contract shall be deemed to cover all such taxes.

73.2 Customs Duty & Taxes

Custom duties & taxes where applicable shall be borne by the contractor.

74.1 Integrity Pact

If the Contractor or any of his Subcontractors, agents or servants is found to have violated or involved in violation of the Integrity Pact signed by the Contractor as Appendix-L to his Bid, then the Employer shall be entitled to:

- (a) recover from the Contractor an amount equivalent to ten times the sum of any commission, gratification, bribe, finder's fee or kickback given by the Contractor or any of his Subcontractors, agents or servants;
- (b) terminate the Contract; and
- (c) recover from the Contractor any loss or damage to the Employer as a result of such termination or of any other corrupt business practices of the Contractor or any of his Subcontractors, agents or servants.

The termination under Sub-Para (b) of this Sub-Clause shall proceed in the manner prescribed under Sub-Clauses 63.1 to 63.4 and the payment under Sub-Clause 63.3 shall be made after having deducted the amounts due to the Employer under Sub-Para (a) and (c) of this Sub-Clause.

75.1 Termination of Contract for Employer's Convenience

The Employer shall be entitled to terminate the Contract at any time for the Employer's convenience after giving 56 days prior notice to the Contractor, with a copy to the Engineer. In the event of such termination, the Contractor:

- (a) shall proceed as provided in Sub-Clause 65.7 hereof; and
- (b) shall be paid by the Employer as provided in Sub-Clause 65.8 hereof.

76.1 Liability of Contractor

The Contractor or his Subcontractors or assigns shall follow strictly, all relevant labour laws including the Workmen's Compensation Act and the Employer shall be fully indemnified for all claims, damages etc. arising out of any dispute between the Contractor, his Subcontractors or assigns and the labour employed by them.

77.1 Joint and Several Liability

If the Contractor is a joint venture of two or more persons, all such persons shall be jointly and severally bound to the Employer for the fulfilment of the terms of the Contract and shall designate one of such persons to act as leader with authority to bind the joint venture. The composition or the constitution of the joint venture shall not be altered without the prior consent of the Employer.

78.1 Details to be Confidential

The Contractor shall treat the details of the Contract as private and confidential, save in so far as may be necessary for the purposes thereof, and shall not publish or disclose the same or any particulars thereof in any trade or technical paper or elsewhere without the prior consent in writing of the Employer or the Engineer. If any dispute arises as to the necessity of any publication or disclosure for the purpose of the Contract, the same shall be referred to the decision of the Engineer whose award shall be final.

PART II –PARTICULAR CONDITIONS OF CONTRACT

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-SPECIFICATIONS-

NHA General Specifications 1998 will be used as project Specification.

SPECIAL AND TECHNICAL PROVISIONS

SUPPLEMENTARY SPECIFICATIONS

SS - 1 Progress Report

The Contractor shall submit to the Employer fortnightly progress reports in two copies detailing the progress in the execution of work during the reporting period. The submission of the progress reports shall be condition precedent to the payment of Contractors Bills by the Employer. One week in advance the Contractor shall submit for the Employer's approval, particulars of the work he proposes to execute within the following two weeks.

SS - 2 Attendance of Meetings

- (a) The Contractor shall attend and shall cause his Sub-Contractors to attend any or all meetings when called by the Employer or the Engineer to discuss progress of the Work and other matters related to the Work and the Contract, without any compensation from the Employer.
- (b) The Contractor shall bear all expenses of the Employer and representatives and the Engineer, and representatives for any meetings requested by the Contractor for instructions and approvals away from the site within or outside Pakistan.

SS - 3 Supply of Bitumen and Cement, etc.

The Contractor shall arrange and ensure timely supply of Bitumen, Cement and other materials required in the Work. The Employer does not assume any responsibility for the supply of materials. However, the Employer shall issue a certificate of the estimated requirement of the quantity of Bitumen and Cement at the specific request of the Contractor. Moreover required Tests of Bitumen quality shall be carried out specially the Wax Content Test (ASTM D721; IP 158) before approval of the material. The tests shall be carried out in approved NHA's Laboratories. JMF for asphalt shall be approved by the Resident Engineer & Material Engineer.

SS - 4 Electric Supply

The Contractor shall make arrangement for the electric power supply and distribution of the same at the Site of Works for the completion of the Works at his own expense.

SS - 5 Rate and Prices Inclusive

The rates and prices quoted by the Contractor in the priced Bill of Quantities shall include all freight, customs, import duties, taxes, pilotage, landing Supplementary Conditions of Contract charges, wharfage, octroi, excise duties, royalties and all other costs, charges imposed whatsoever in respect of any or other things provided by him for the Works.

The prices in the Bill of Quantities include also all additional costs and provisions required for the correct execution of work in compliance with the time Schedule and the Specifications.

By way of illustration but not enumeration the Unit Prices shall include besides the costs for supply of material and equipment, cost of their transport, Contractor's profit etc., the cost for provision of the following:-

- (a) Furnishing and maintenance of Contractor's Equipment, fuel for Equipment, temporary works, tests, samples and labour necessary for execution of the works, Equipment for transport, machines, test laboratories, Site Office and sheds including all expenses for the furnishing and maintenance of the Workshops and storage areas used by the Contractor.
- (b) Required power, water and other services.
- (c) Illumination and safety at Site.
- (d) All additional costs due to any kind of difficult working, conditions and interruptions which may possibly be caused by adverse physical conditions.
- (e) Staff allowances, ambulances, expenses for medical treatment, traveling expenses, holiday wages and salaries and all other costs for all employees, the required means of communications such as telephone and the like, the required means for protection against accidents.
- (f) All expenses for royalties, licenses, liabilities insurances, rent, hire and the like in connection with the Works.
- (g) Other special work arrangements and provisions not mentioned here but necessary for the proper and complete execution of the Works such as provision & maintenance of Diversions/Detour etc.
- (h) All Government and/or Municipal taxes, customs duties, excise duties, stamp duties or any other dues, taxes or charges.
- (i) Cost of all insurances to be kept in force during the period of construction and the period of maintenance of the works under the Contract.
- (j) Mobilization, demobilization and clearance of site.
- (k) Contractor's camp for staff and labour including the services.
- (l) Performance Security and Bank Guarantees as and when required under the Contract.

- (m) Traffic Diversion / management, work zone safety measures etc. and any other measures required for safe and smooth movement of traffic / road commuters/ workers / pedestrians etc.

The cost of the above shall be deemed to be included in the rates and prices tendered for the works and no separate payment shall be made on this account.

SS - 6 Provision of Plant

In respect of any contractor's Equipment in general, except as provided for in these Documents, which the Contractor shall be required to have available at Site for execution of Works in accordance with the Drawings, Specifications or as directed by the Employer, he shall make his own arrangements for foreign exchange, import formalities, customs, transport to the Site of Works and all other formalities whatsoever at his own cost and responsibility.

The Contractor shall be deemed to have taken into consideration all Government or Local Bodies regulations, for the time being in force, regarding the re-export of any plant and equipment which he may have to import in connection with the works. Any amendments to the existing rules and/or further regulations imposed in this respect by the Government of Pakistan shall be strictly followed by the Contractor.

SS - 7 Rates inclusive for all Lead and Lift

The tendered rates shall include all lead and lift required in earthwork.

SS - 8 Borrow Areas

The Contractor shall make his survey/enquiries regarding the suitable and nearest Borrow Areas for embankment, granular fill, bade and sub-base materials etc., and shall apply to the Engineer for approval for the use of the borrow area. It will be the responsibility of the Contractor to acquire the Borrow Areas approved by the Engineer and pay for all royalties/ malkana and all other costs. In case the materials from the approved Borrow Areas do not meet the Specifications, in the opinion of the Engineer, the Contractor shall have to propose new Borrow Areas for approval, and nothing shall be paid to the Contractor for abandonment of the previously approved Borrow Areas. Additional information regarding borrow and quarry sites is available.

SS-9 Time for Completion of Works

The Work is required to be completed in the time stated in Appendix to Tender and the Tenderer to whom the Contract is given will be required to complete and deliver the whole of the Permanent Work strictly within the time so stated. If the Tenderer states, in his Tender, a shorter time than shown in the Appendix, then such shorter time governs.

SS-10 Documents Not to be Altered or Mutilated

No alteration or mutilation (other than filling in all the blanks intended to be filled in) shall be made in the form of Tender or in any of the documents attached to it. Any comments which it is desired to make shall not be placed on any of the documents attached hereto, but shall take the form of a separate statement which shall be as brief as possible and referenced to items, clauses and pages of the annexed documents.

Such statements shall not qualify the acceptance of the Tender based upon a proposed change or changes in the annexed documents, nor shall be binding upon the Employer in any way in making the award. Alterations of already written prices must be signed in the place of alteration by the Tenderer or his legally authorized representative.

SS-11 Personal Liability of Public Officials

In carrying out any of the provisions of these Specifications, or in exercising any power of authority granted to them by or within the scope of the Contract, there shall be no liability upon the Chairman (NHA) or his authorized representatives either personally or as officials of the Government, it being understood that in all matters they act solely as agents and representatives of the Government.

No member or officer of the Government or the Employer or the Employer's representative or any one of their respective staffs or their employees shall be in any way personally bound or liable for the acts or obligations of the Employer under the Contract or answerable for any default or omission in the observance or performance of any of the acts, matters or things which are herein, contained.

SS-12 Access and Canal Roads

If the Contractor finds it necessary or elects to use existing canal roads, the Contractor shall make all necessary arrangements and obtain all permits from the provincial Irrigation Department for travel over and use of such canal roads. The Contractor shall observe all rules regulations of the Irrigation Department regarding the use of said canal roads. The cost of maintaining all necessary safety measures and temporary structures and making any necessary repairs, replacements or similar operations and all or any other costs required by reasons of his use of such canal roads shall be borne by the Contractor and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands, proceedings, damages, costs, charges and expenses whatsoever arising out of or in relation to any such operation or interference.

SS-13 Railway Traffic

Where construction work or operations of the Contractor are performed within the limits of the right-of-way of the Pakistan Railways, the Contractor shall cooperate with the railway administration in order to expedite the work and to avoid interference with the operation of the railway. Before performing any work on his sidings yards or on other transportation facilities adjacent to

existing railways, the Contractor shall enter into an agreement with and shall meet all requirements of the railway administration within the area of the Contractor's operation for the protection of its lines against damage, interference with traffic or service thereon by the operations of the Contractor under this Contract. The Contractor shall not store or place any materials or equipment on the right-of-way of the existing railway in such a manner as to interfere with the operations of trains or the maintenance of the rail bed and track. In advance of any operation which may unavoidably interfere with the operation of the railway, the Contractor shall notify the superintendent of the corresponding Railway division in order that proper flagging or other protection may be provided. The cost of providing and maintaining all necessary safety measures, watchman guards, signals and temporary structures or making any necessary repairs, replacements or similar operations or furnishing indemnity or other required by this article shall be borne by the Contractor and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands, proceedings, damages costs, charges and expenses whatsoever arising out of or in relation to any such operations or interference.

SS-14 Irrigation Flow

The Contractor shall conduct his operations so as to offer the least possible obstruction for maintaining flow in irrigation canals, channels and water courses. The Contractor shall observe all rules and regulations of appropriate authorities regarding the interruption and maintenance of flow in irrigation canals, channels and water sources and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands, proceedings, damages, costs and expenses whatsoever arising out of or in relation to any such construction, operations or interference with irrigation flows.

The Contractor shall maintain alternate channels wherever temporary relocation of irrigation channels is required or where his operations disrupt the irrigation flow, without any compensation from the Employer.

SS-15 Utility Lines

The Contractor shall conduct his operations, make necessary arrangements, take suitable precautions and perform all required work incident to the protection of and avoidance of interference with power transmission, telegraph, telephone and natural gas lines, oil lines water and sewerage mains and other utilities within the areas of his operations in connection with this Contract and the cost thereof shall be borne by the Contractor and the Contractor shall save harmless and indemnify the Employer in respect of all claims, demands, proceedings, costs, charges and expenses whatsoever arising out of or in relation to any such interference.

SS-16 First Aid Facilities

The Contractor shall provide and maintain adequate First Aid Facilities convenient to the Site to the approval of the Employer.

SS-17 Location of Contractor's Camp

The location of houses, barracks, stores and offices, etc., shall be determined in agreement with Employer. Installation for the supply of electricity and water, fuel, lighting, etc., must be present to the necessary extent.

SS-18 Final Hand Over

At the end of the Defects Liability Period stipulated in the Contract, the Employer on application of the Contractor, shall decide the members of the final hand over committee and announce the same to the Contractor. The committee, after investigation of Work, if satisfied that there are no deficiencies or defects due to work of the Contractor, shall certify the final hand-over, and the Engineer will then issue a Defects Liability Certificate as provided under Clause 62.1 of Conditions of Contract.

SS-19 Making Good Damage to Services, Earthwork, etc.

The Contractor shall make good, at his own cost, all damages to telephone, telegraph and electric cables or wires, sewers, water or other pipes except where the Authority, Employer or Private Party owing or responsible for the same elects to make good the damage.

All injury to the surface of the land, to the beds of water courses, protecting banks, riverbeds, etc. Where disturbed by the works (other than where specifically ordered by the Employer), shall be repaired by the Contractor or the Authorities concerned, at the Contractor's expense. All such making good shall be to the approval of the Employer.

SS-20 Returns of Plant, Materials, etc.

The Contractor shall forward to the Employer at the end of each month returns showing the Constructional Plant, materials, etc., on Site, in a form prescribed by the Employer.

SS-21 Method of Measurement

The measurement of the Work shall be performed on the basis of the Specifications. If these measurements exceed the measurements indicated in the Specifications and Drawings, excepting those directed by the Employer, such excess shall be on the account of the Contractor and he shall not be entitled to any compensation therefor. But if they are less than the measurements indicated in the Specifications and Drawings then the Works actually executed shall be measured, provided they are technically acceptable and there is no provision to the contrary in any other part of the Contract Documents. All work completed under the Contract shall be measured according to the metric system for all items, unless otherwise provided herein or in the special Provisions. All longitudinal measurements for area or volume will be made horizontally along the road centre line, and no deduction will be made for individual fixtures in the pavement having an area of 1 sq. Meter or less. All transverse measurements for area or volume of pavement courses will be made horizontally in accordance with the dimensions indicated on the plans, or the dimensions ordered by the Employer. In computing volume of excavation, embankment and borrow, the average end-area method will be used.

Quantities of materials wasted or disposed off in a manner not called for under the Contract or rejected loads of materials, including material rejected after it has been placed by reason of the failure of the contractor to conform to the provisions of the Contract, or material not unloaded from the transporting vehicle, or material placed outside of the lines indicated on the drawings or established by the Employer, or material remaining on hand after completion of the work will not be paid for and such material should be disposed off by the Contractor at his own expense. No compensation will be allowed for hauling rejected materials. The Works shall be measured net notwithstanding any general or local custom except where otherwise specifically described or prescribed in the Contract.

SS-22 Record of Measurements

The Contractor will supply to the Employer's Representative six (6) copies of the abstract of Contractor's certificate of payment every month along with two copies of detailed measurements, quality control tests and cross sections with calculations, and any other document or information which form the basis of payment.

SS-23 Dangerous Materials

The Contractor and his sub Contractors shall convey, store and make use of all explosives, dangerous petroleum, acetylene, carbide of calcium and other similar material provided by them for use in or on the works in strict accordance with the provision of all laws, orders and regulations that are in force at the Site or may be issued from time to time by the Government.

SS-24 Progress Photographs

The Contractor shall furnish to the Employer every two weeks at least four photographs to clearly show the progress of construction. The photographs shall be submitted in three glossy prints 20 cm x 20 cm, together with the negative. Each print shall be marked on the back with the date and serial number. There shall be no writing, lettering or marking on the face of the photograph.

SS-25 As Built Drawings/Shop Drawings

During construction, the Contractor shall keep an accurate record of all deviations of his work as actually installed from that shown or indicated on the Contract Drawings upon completion of the Work; the Contractor shall deliver to the Employer cloth/milar paper tracings, the same size as Contract Drawings and at an approved scale showing the Work as actually installed. All Drawings are to become the property of the Employer.

All the shop drawings/fabrication drawings shall be prepared by the Contractor and submitted to the Engineer at least fifteen days before the start of the work. The Engineer shall check and approve or return the same to the Contractor for correction/modification within the period of 15 days from the day of receipt of the drawings. All work is to be executed by the Contractor in accordance with the drawings approved before the commencement of the works.

SS-26 Safety Precautions

The Contractor shall adequately provide for the safety, health and welfare of persons and for the prevention of damage to works, material and equipment for the purpose of or in connection with the Contract.

SS-27 Work Zone Safety

The Contractor shall ensure implementation of Work Zone Safety Plan (placement, signage size, dimensions and lettering) according to the standards and Drawings duly as approved by the Employer and also provided herein the bidding document. No separate payment shall be made in this regard.

SS-28 Fixed Withholding Tax

A sum in Pakistani Rupees, in accordance with the prevailing income tax laws of Pakistan shall be deducted from all actual payments made to the Contractor and be deposited with the Government of Pakistan towards payment of income tax by the Contractor. When such deduction is made from the payments a certificate to that effect shall be issued by the Employer to the Contractor.

Notwithstanding such deduction of income tax at source, the Contractor shall be liable to pay the balance income tax, super tax and other taxes on income or his profits arising out of the Contract, and his employees on their remunerations etc, in accordance with the prevailing income tax laws of Pakistan.

SS-29 Work Zone Safety Plan

It is the responsibility of the contractor throughout the completion period that the contractor also provide and ensure the work zone safety measures at site at day & night (round the clock) as per specification of work zone safety which will be provided to the contractor by the concerned Dy. Director.

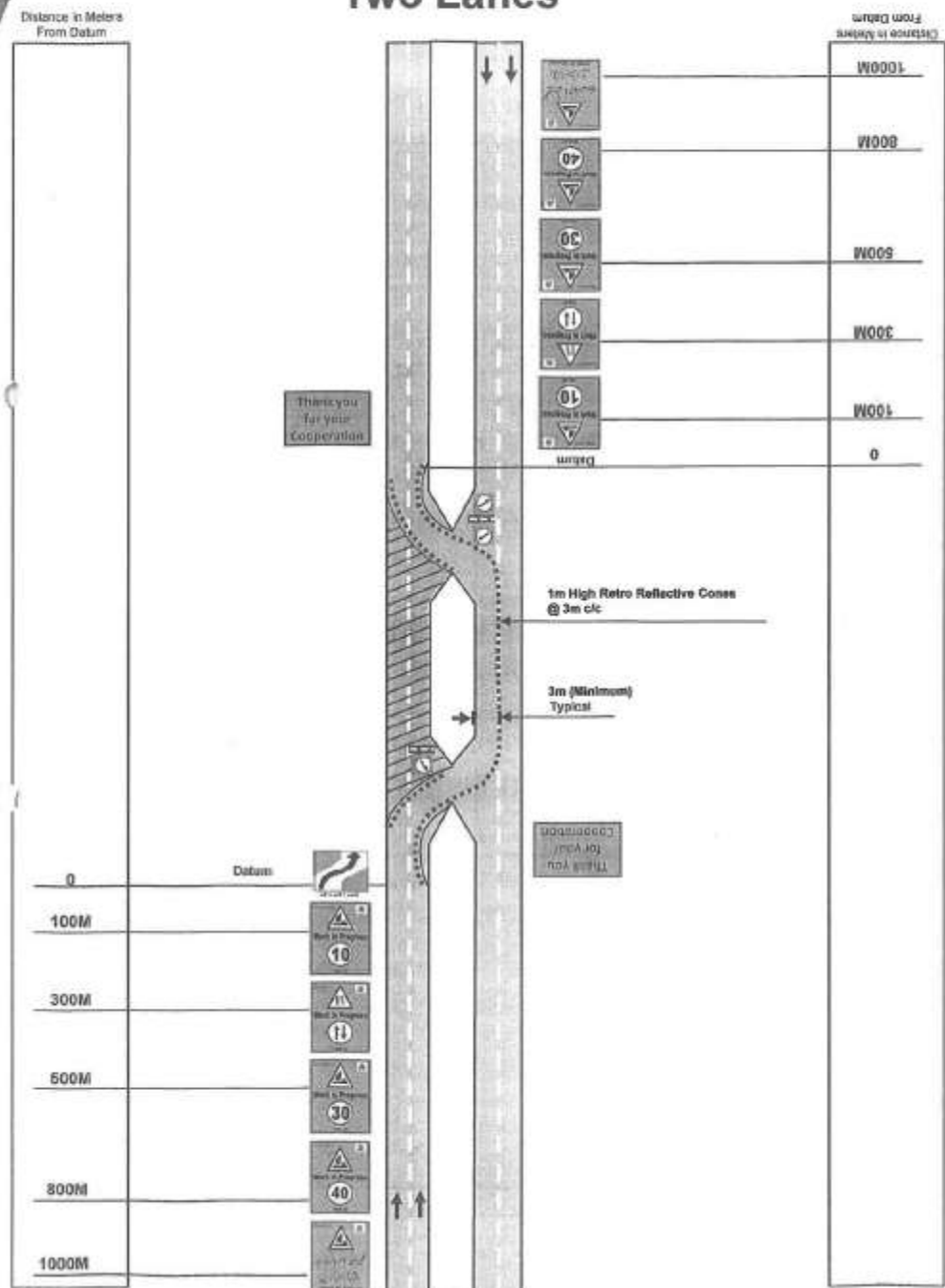
SS-30 Concrete Work

All the Concrete will be from Concrete Batching Plant and will be transported in transit mixers using additional high early strength Admixture Chemrite Rapid 1 or equivalent (0.5kg per cement bag) for Concrete Class-A and Class-B) and concrete pouring will be done with Concrete Pump with subsequent use of vibrator. Formwork will be done with folding pipes and plywood waterproof sheets and also the contractor have to seal the holes of formwork to achieve the best quality of work.

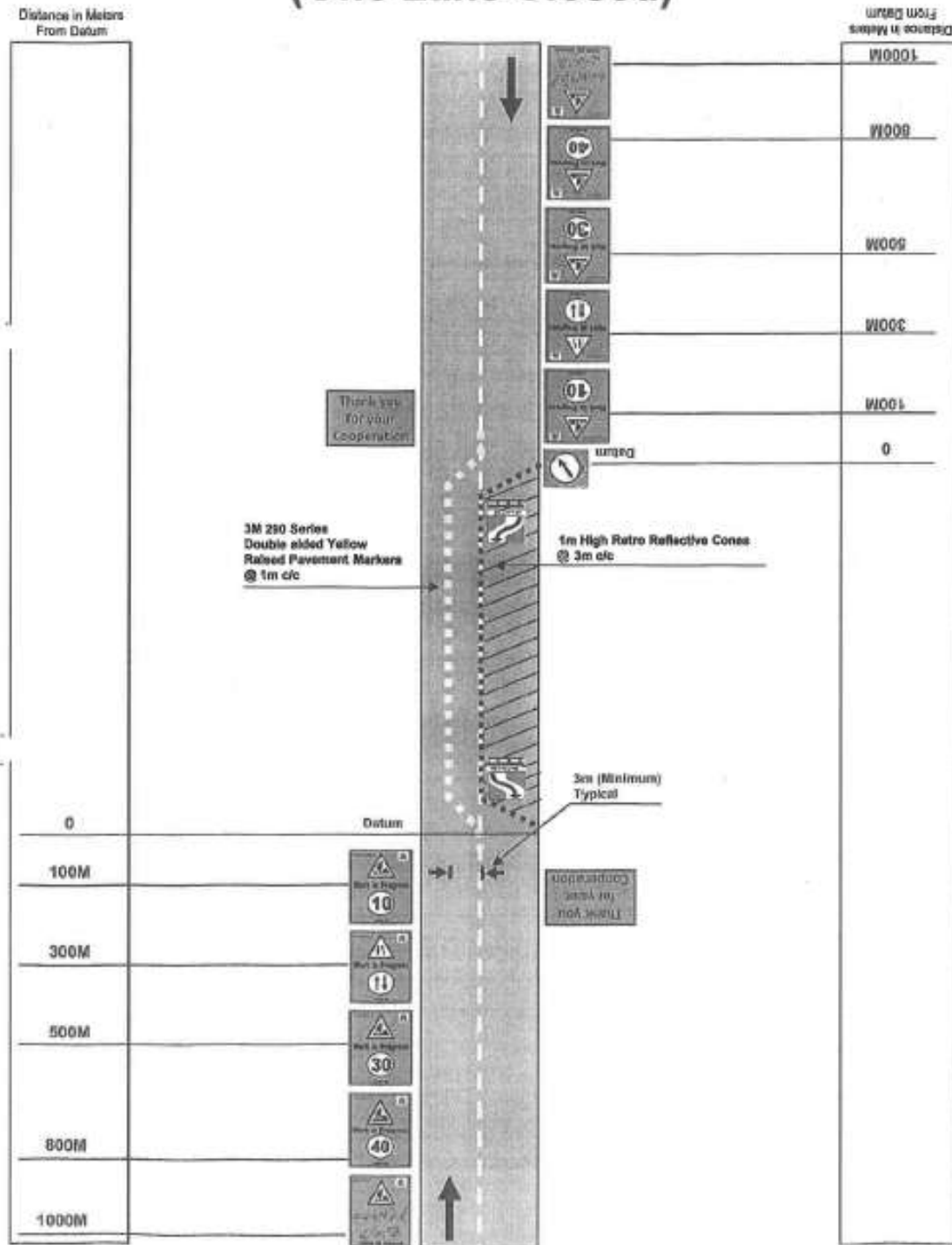
DRAWINGS

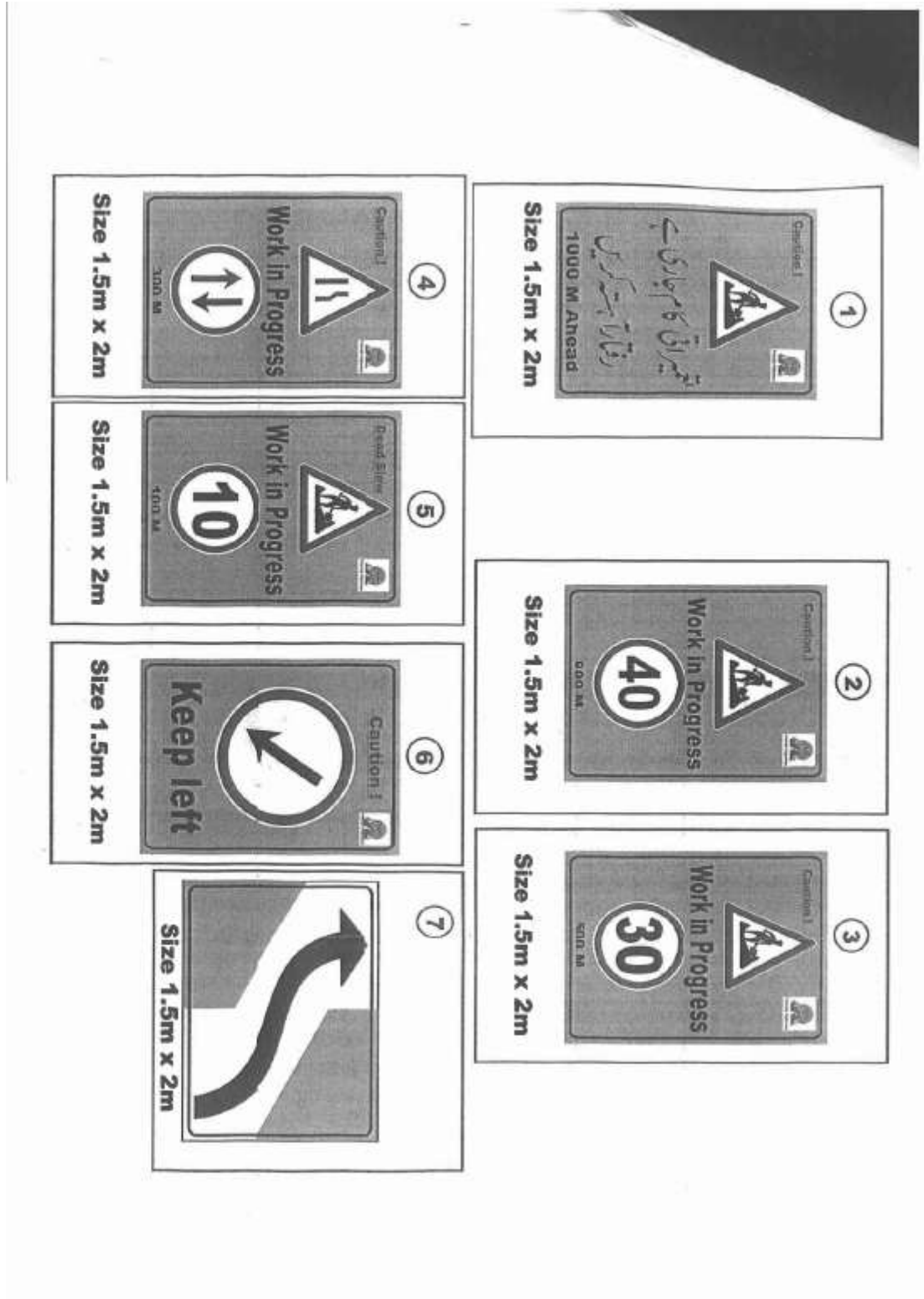
WORK ZONE SAFETY DRAWINGS

Distance
From



Single Carriageway Road Two Lanes (One Lane Closed)





Work Zone Safety